SANYO

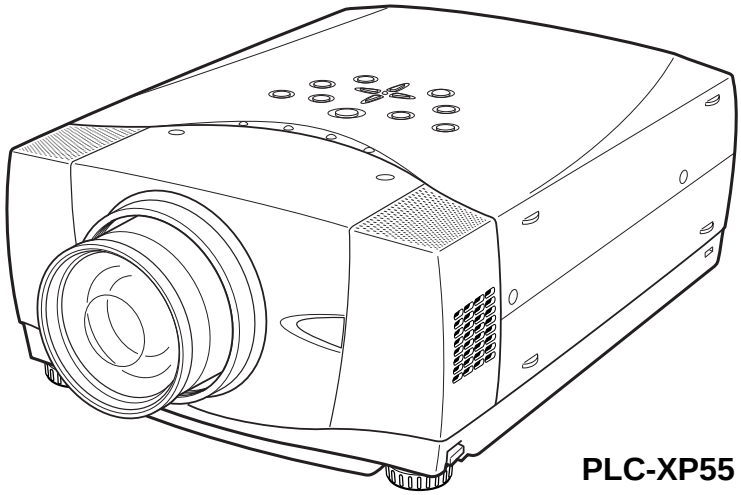
FILE NO.

SERVICE MANUAL

Multimedia Projector **Model No. PLC-XP55**
PLC-XP55L

U.S.A., Canada,
Europe, Asia, Africa

Original Version



PLC-XP55

Chassis No. MR3-XP5500
MR3-XP55L00

NOTE: Match the Chassis No. on the unit's back cover with the Chassis No. in the Service Manual.

If the Original Version Service Manual Chassis No. does not match the unit's, additional Service Literature is required. You must refer to "Notices" to the Original Service Manual prior to servicing the unit.

Note:
Model PLC-XP55L does not provide projection lens.

PRODUCT CODE
1 122 185 00 (MR3A)
1 122 185 20 (MR3AL)
1 122 186 00 (PR3A)
1 122 186 20 (PR3AL)
1 122 186 02 (PR3C)
1 122 186 22 (PR3CL)

REFERENCE NO. SM5110500

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SAFETY PRECAUTIONS

WARNING:
The chassis of this projector is isolated (COLD) from AC line by using the converter transformer. Primary side of the converter and lamp power supply unit circuit is connected to the AC line and it is hot, which hot circuit is identified with the line (⎓) in the schematic diagram. For continued product safety and protection of personnel injury, servicing should be made with qualified personnel.

The following precautions must be observed.

1: An isolation transformer should be connected in the power line between the projector and the AC line before any service is performed on the projector.

2: Comply with all caution and safety-related notes provided on the cabinet back, cabinet bottom, inside the cabinet or on the chassis.

3: When replacing a chassis in the cabinet, always be certain that all the protective devices are installed properly, such as, control knobs, adjustment covers or shields, barriers, etc.

DO NOT OPERATE THIS PROJECTOR WITHOUT THE PROTECTIVE SHIELD IN POSITION AND PROPERLY SECURED.

4: Before replacing the cabinet cover, thoroughly inspect the inside of the cabinet to see that no stray parts or tools have been left inside.

Before returning any projector to the customer, the service personnel must be sure it is completely safe to operate without danger of electric shock.

PRODUCT SAFETY NOTICE

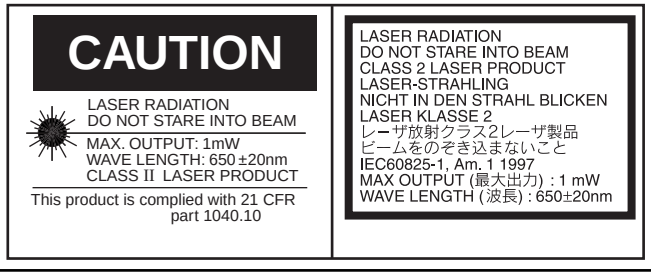
Product safety should be considered when a component replacement is made in any area of the projector. Components indicated by mark ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of there parts must be made by exactly the same parts.

SERVICE PERSONNEL WARNING

Eye damage may result from directly viewing the light produced by the Lamp used in this equipment. Always turn off Lamp before opening cover. The Ultraviolet radiation eye protection required during this servicing.
Never turn the power on without the lamp to avoid electric-shock or damage of the devices since the stabilizer generates high voltages(15kV - 25kV) at its starts.
Since the lamp is very high temperature during units operation replacement of the lamp should be done at least 45 minutes after the power has been turned off, to allow the lamp cool-off.

DO NOT ATTEMPT TO SERVICING THE REMOTE CONTROL UNIT.

Laser Beam may be leaked out when in disassemble the Unit. As the Laser Beam used in this Remote control unit is harmful to the eyes.



■ Specifications

Projector Type	Multi-media Projector
Dimensions (W x H x D)	12.6" x 6.6" x 18.5" (319mm x 168mm x 470mm)
Net Weight	20.3 lbs (9.2 kg) (PLC-XP55), 17.4 lbs (7.9 kg) (PLC-XP55L)
LCD Panel System	1.3" TFT Active Matrix type, 3 panels
Panel Resolution	1024 x 768 dots
Number of Pixels	2,359,296 (1024 x 768 x 3 panels)
Color System	PAL, SECAM, NTSC, NTSC4.43, PAL-M and PAL-N
High Definition TV SIgnals	480i, 480p, 575i, 575p, 720p, 1035i and 1080i
Scanning Frequency	H-sync. 15 ~ 100kHz, V-sync. 50 ~ 100Hz
Projection Lens	F 1.7 ~2.0 lens with f=48.2mm ~ 62.6mm motor zoom and focus (PLC-XP55)
Throw Distance	4.6' ~ 48.3' (1.4m ~ 14.7m) (PLC-XP55)
Motorized Lens Shift	Up and Down
Projection Image Size (Diagonal)	Adjustable from 31" to 400"
Horizontal Resolution	800 TV lines (HDTV)
Projection Lamp	300 watt type
Input 1/Monitor Output Jacks	DVI Terminal (Digital) HDCP Compatible, HDB 15-pin Terminal (Analog) and Stereo Mini Type Jack (Audio)
Input 2 Jacks	BNC Type x 5 (G or VIDEO/Y, B or Cb/Pb, R or Cr/Pr, H and V), Stereo Mini Type Jack (Audio)
Input 3 Jacks	RCA Type x 3 (VIDEO/Y, Cb/Pb, Cr/Pr), RCA Type x 2 (Audio R and L) and DIN 4-pin (S-Video)
Other Jacks	DIN 8-pin (Control port), USB port (Series B receptacle), Wired Remote Jack and PJ-Net Organizer Connector
Built-in Speakers	INT. SP. Stereo (R and L), 2 watts RMS (T.H.D. 10%)
Feet Adjustment	0˚ to 10.5˚
Voltage and Power Consumption	AC 100 ~ 120V (5.0A Max. Ampere), 50/60Hz (The U.S.A and Canada) AC 200 ~ 240V (2.5A Max. Ampere), 50/60Hz (Continental Europe and The U.K.)
Operating Temperature	41 ˚F ~ 95 ˚F (5˚C ~ 35˚C)
Storage Temperature	14 ˚F ~ 140 ˚F (-10˚C ~ 60˚C)
Remote Control Transmitters	Wireless/Wired Remote Control, batteries AA, UM3 or R06 Type x 2

● The specifications are subject to change without notice.

c UL US LISTED

This symbol on the nameplate means the product is Listed by Underwriters Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

CE

The CE Mark is a Directive conformity mark of the European Community (EC).

■ Adjustments after Parts Replacement

● : Adjustment necessary ❍ : Check necessary

		Disassembly / Replaced Parts								
		LCD/ Prism Ass'y	Condenser Lens	Relay Lens	Polarized glass			Power Board	Sub Power Board	Main Board
					R	G	B			
Optical Adjustments	Condenser lens adjustment	❍	●							
	Relay lens adjustment	❍		●						
	Contrast Adjustment									
	R-Contrast adjustment				●					
	G-Contrast adjustment					●				
	B-Contrast adjustment						●			
Electrical Adjustments	Output voltage adjustment							●		
	+16 V adjustment							●		
	Fan output voltage adjustment								●	●
	Video center adjustment									●
	PSIG adjustment									●
	PC pedestal adjustment									●
	PC gain adjustment									●
	PC gamma gain adjustment									●
	PC black level adjustment									●
	Video A/D reference voltage top & bottom adj.									●
	Video pedestal adjustment									●
	Video gain adjustment									●
	Video black level adjustment									●
	Component pedestal adjustment									●
	Component A/D reference voltage top adjustment									●
	Component gain adjustment									●
	RGB pedestal adjustment									●
	RGB A/D reference voltage top adjustment									●
	RGB gain adjustment									●
	Common center adjustment	●								●
	PC white balance adjustment	❍								❍
	Video white balance adjustment	❍								❍

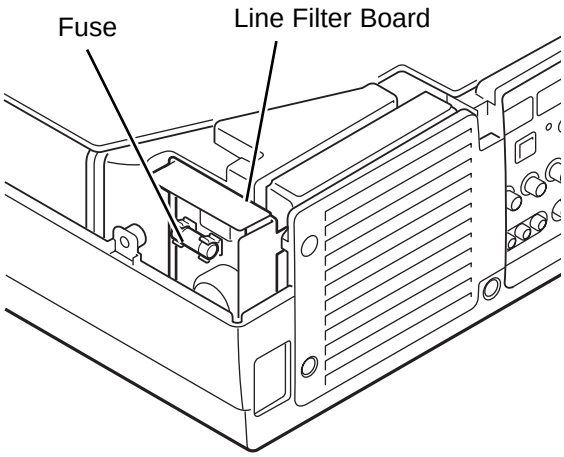
■ Circuit Protections

This projector is equipped with the following circuit protections to operate in safety. If the abnormality occurs inside the projector, it will automatically turn off by operating one of the following protection circuits.

● Fuse

The fuse is located inside of the projector. When either the LAMP indicator or the READY indicator is not illuminated, fuse may be opened. Check the fuse as following steps.
It should be used the specified fuse as follows;

Fuse Part No.: 423 025 1201
TYPE T8AH 250V FUSE
LITTEL FUSE INC. TYPE 215008

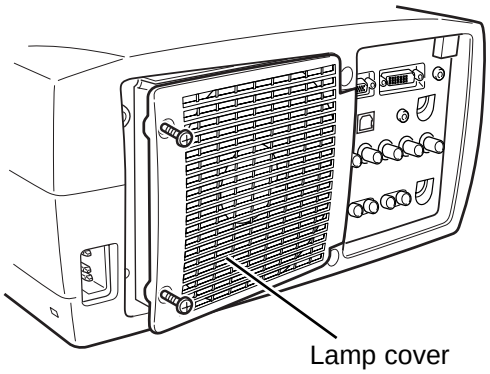


How to replace the fuse

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Remove the fuse from fuse holder.
To install the fuse, take reversed step in the above.

● Thermal switch

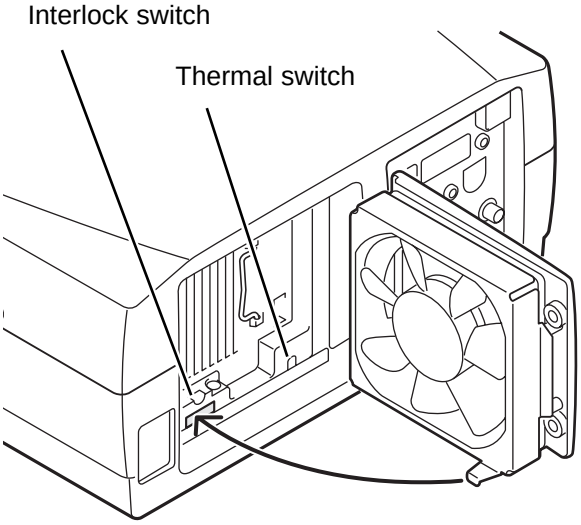
There is the thermal switch (SW905) inside of the projector to prevent the internal temperature from rising abnormally. When the internal temperature reaches near 90˚C, turn off the AC main power supply automatically.
The thermal switch is not reset to normal automatically even if the internal temperature becomes normal. Reset the thermal switch following procedure.
Check the resistance between terminals of thermal switch by using the tester. If it has high impedance, thermal switch may be in operative.



How to reset the thermal switch

1. Loosen 2 screws and open the lamp cover.
2. Press the reset button on the thermal switch with a sharp-pointed tool.

CAUTION:
Before press the reset button, disconnect the AC cord from the projector.



● Interlock switch

The interlock switch (SW902) cuts off the AC mains power supply when the lamp cover is removed. After opening the lamp cover for replacing the lamp ass’y, place the lamp cover correctly otherwise the projector can not turn on.

● Warning temperature and power failure protection

The TEMP WARNING indicator flashes red and the projector will automatically turn off when the internal temperature of the projector exceeds the normal temperature or when stopping cooling fans or when the internal power supply lines are failed.

Check the following possible causes and wait until stopping the TEMP WARNING indicator flashing.

Possible causes

- Air filter is clogged with dust particles. Remove dust from the air filter by following instructions in the “Air filter care and cleaning” below.
- Ventilation slots of the projector are blocked. In such an event, reposition the projector so that ventilation slots are not obstructed.
- Check if projector is used at higher temperature place (Normal operating temperature is 5 to 35 ˚C or 41 to 95˚F)

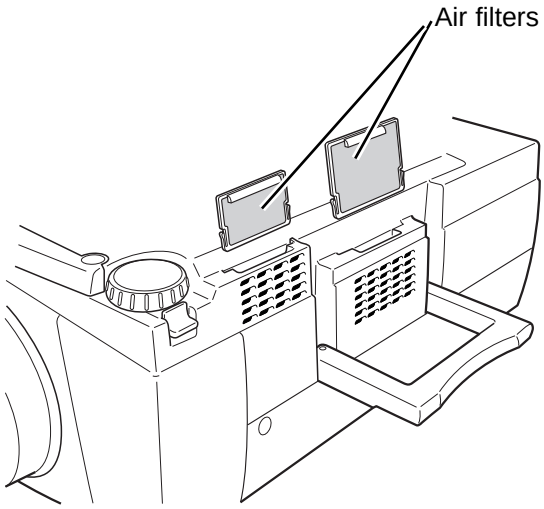
If the TEMP WARNING indicator still continues to flash, there may be defects on cooling fans or power supply circuits. Please check fan operation and power supply lines referring to the “Power Supply Lines Chart”.

Air filter care and cleaning

The removable air filter prevents dust from accumulation on the surface of the projection lens and projection mirror. Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and reduce the life of the projector.

To clean up the air filters, follow the cleaning procedure below:

1. Turn the power off, and disconnect the AC power cord from the AC outlet.
2. Turn the projector up side down and remove an air filters by pulling the latches of them upward.
3. Clean the air filters with brush or wash out the dust and particles.
4. Replace each air filter properly. Make sure that the air filters are fully inserted.



CAUTION:

Do not operate the projector with the air filter removed. The dust is stuck on the LCD panel and the mirror, and it may spoil the fine picture image.
Do not put the small parts into the air intake vents. It may result in the malfunction of the projector. The air filter is small parts. Take care that children don’t eat or swallow it.

RECOMMENDATION

We recommend to avoid dusty, smoky place for operating the projector. Using in dusty place may cause the picture of poor quality.
When using under the dusty or smoky conditions, dust may accumulate on the LCD panel and lens inside it, and may resultantly be projected on the screen together with the picture.
When the above symptoms are noticed, please clean up the LCD panel and lens following to the “Cleaning Method”.

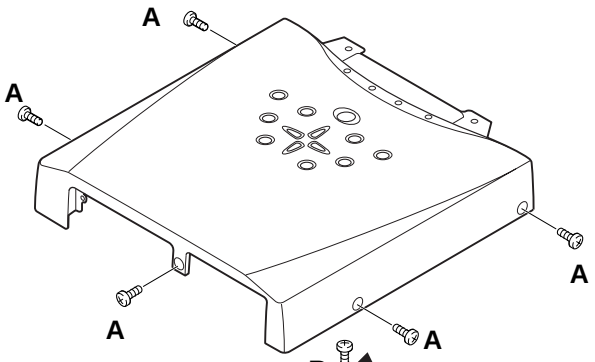
■ Mechanical Disassemblies

Mechanical disassemble should be made following procedures in numerical order.
Following steps show the basic procedures, therefore unnecessary step may be ignored.
Caution:
The parts and screws should be placed exactly the same position as the original otherwise it may cause loss of performance and product safety.

1 Cabinet Top removal

1 Remove 5 screws **A**, 2 screws **B**, and loosen 2 screws **C**, and then take the Cabinet Top upward off.

Note: If you want to remove the Cabinet Front-Top only, you do not need to remove screws **A**. Remove 2 screws **B** and Lens Front Cover.



2 Cabinet Front removal

1 Turn the Lens Front Cover counter-clockwise and to take it off by pulling forward as shown in **Fig.2-1.**
2 Remove the Cabinet Front-Top, Lens Cover Holder and Lens Cover upward off.
3 Remove 2 screws **D** to take the Cabinet Front off.
4 Remove the RC Board and speakers on the Cabinet Front.

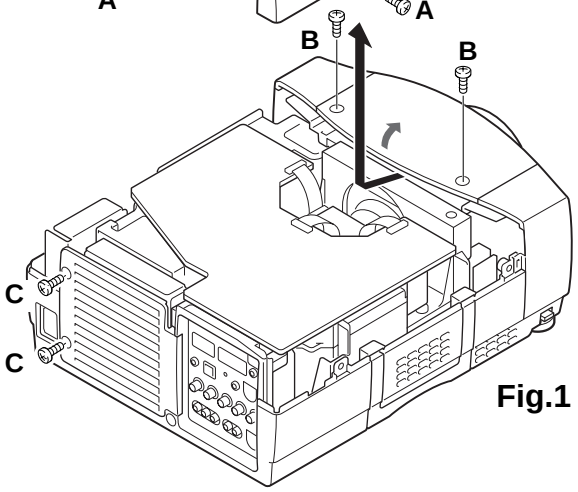


Fig.1

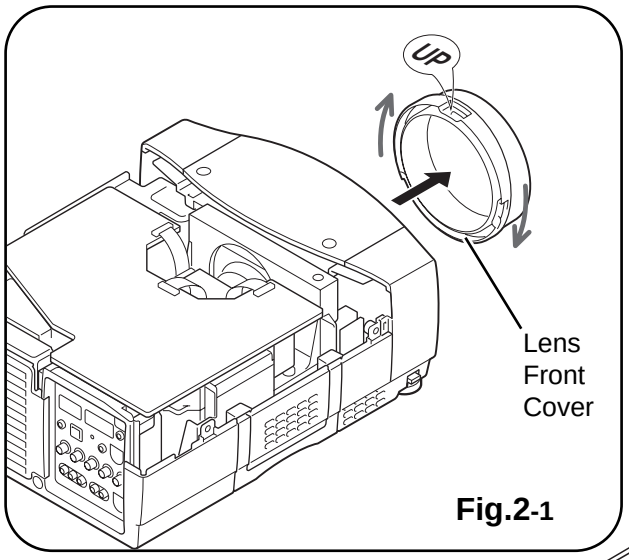


Fig.2-1

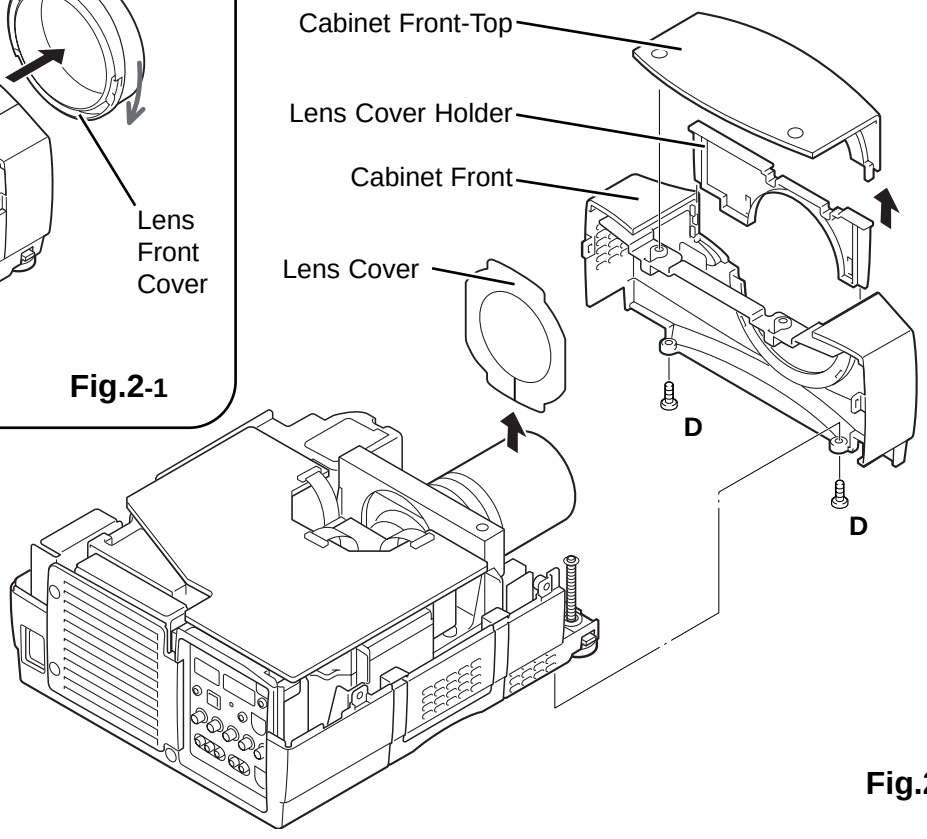


Fig.2-2

3 Main Board removal

1 Remove 6 screws to take the Main Board upward.

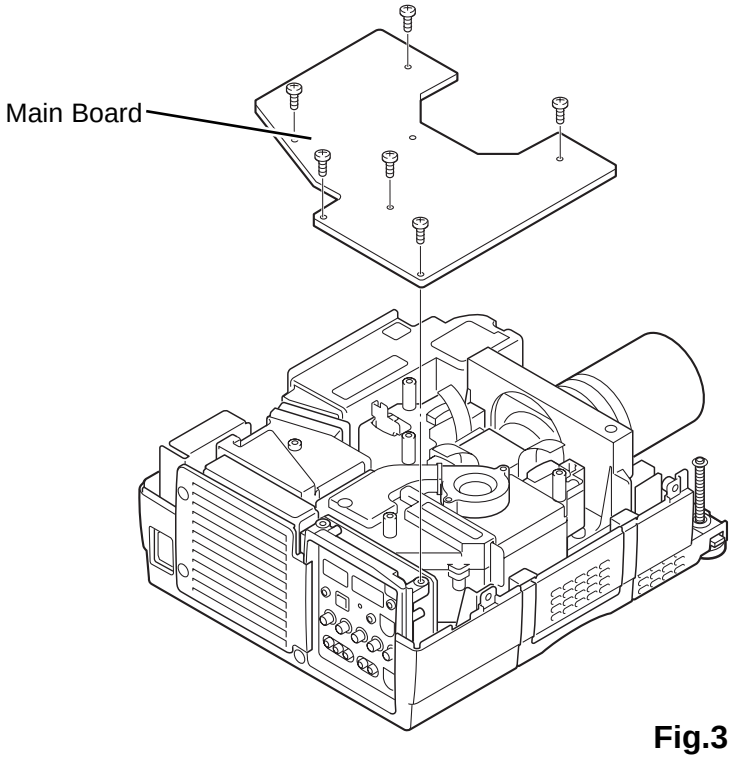


Fig.3

4 AV, I/F Board & Rear Panel removal

1 Remove 1 screw **A** and take the Rear Panel ass'y upward off.
2 Remove 4 screws **B** to take the fan (FN905) off.
3 Remove 5 screws **C** and 1 screw **D** to take AV Board from the Rear Panel ass'y off.
4 Remove 2 screws **E** and grounding leads and then pull up the I/F Board and Holder assy from the bottom cabinet.
5 Remove 4 screws **F** to take the I/F Board.

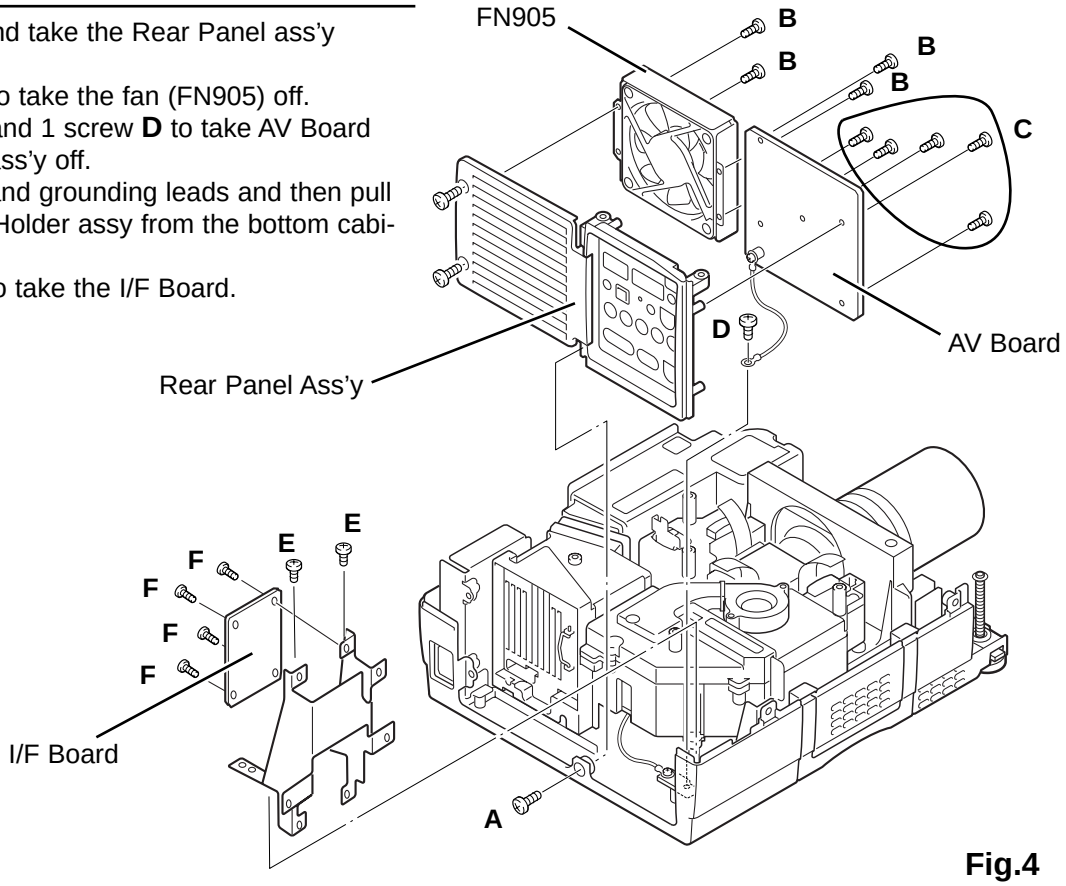


Fig.4

5 Lamp Ballast Unit removal

1 Remove 4 screws **A** to take the Ballast Cover upward off.
2 Remove 3 screws **B** to take the Fan (FN904) and the Fan mounting base off.
3 Remove 2 screws **C** to take the Fan (FN904) off from the Fan mounting base.
4 Remove the Sub Power Board and Drive Board by pulling them upward.

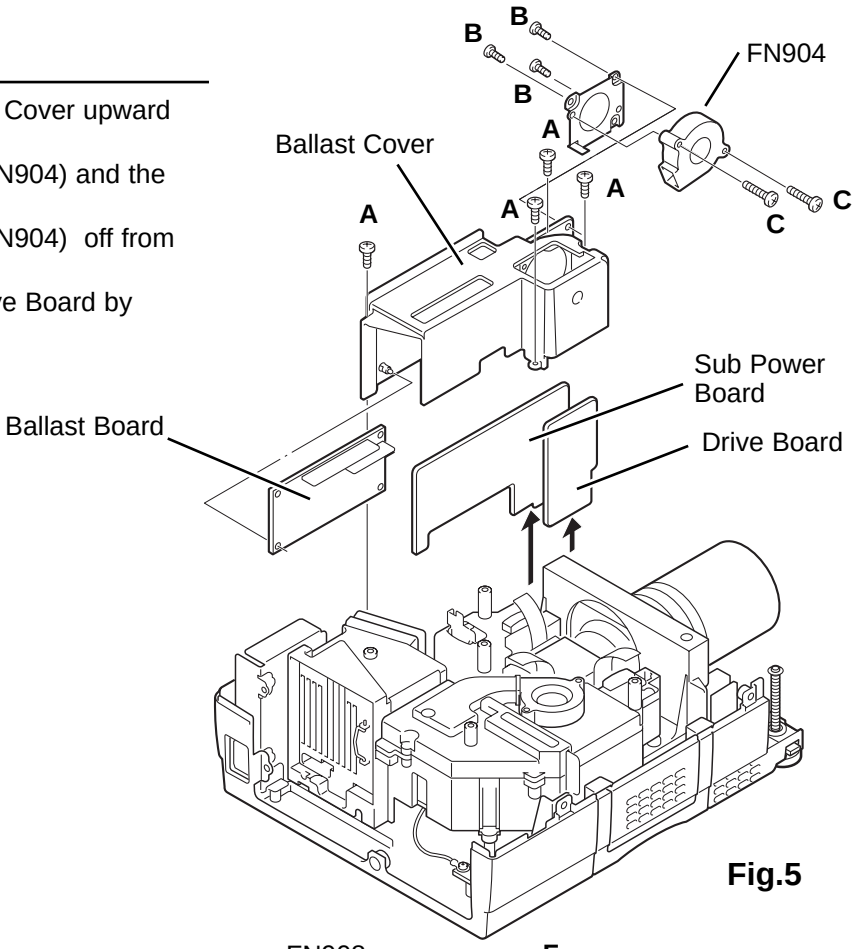


Fig.5

6 Optical Unit removal

1 Remove 1 screw **A** and then remove the holder.
2 Remove 2 screws **B** and 4 screws **C**(small) and pull the Optical Unit upward off.
3 Remove 4 screws **D** to take the Fan (FN908) off.
4 Remove 1 screws **E** to take the Fan (FN903) off and 2 screws **F** to take the air duct off.
5 Remove 3 screws **G** to take the Fan (FN907) off.

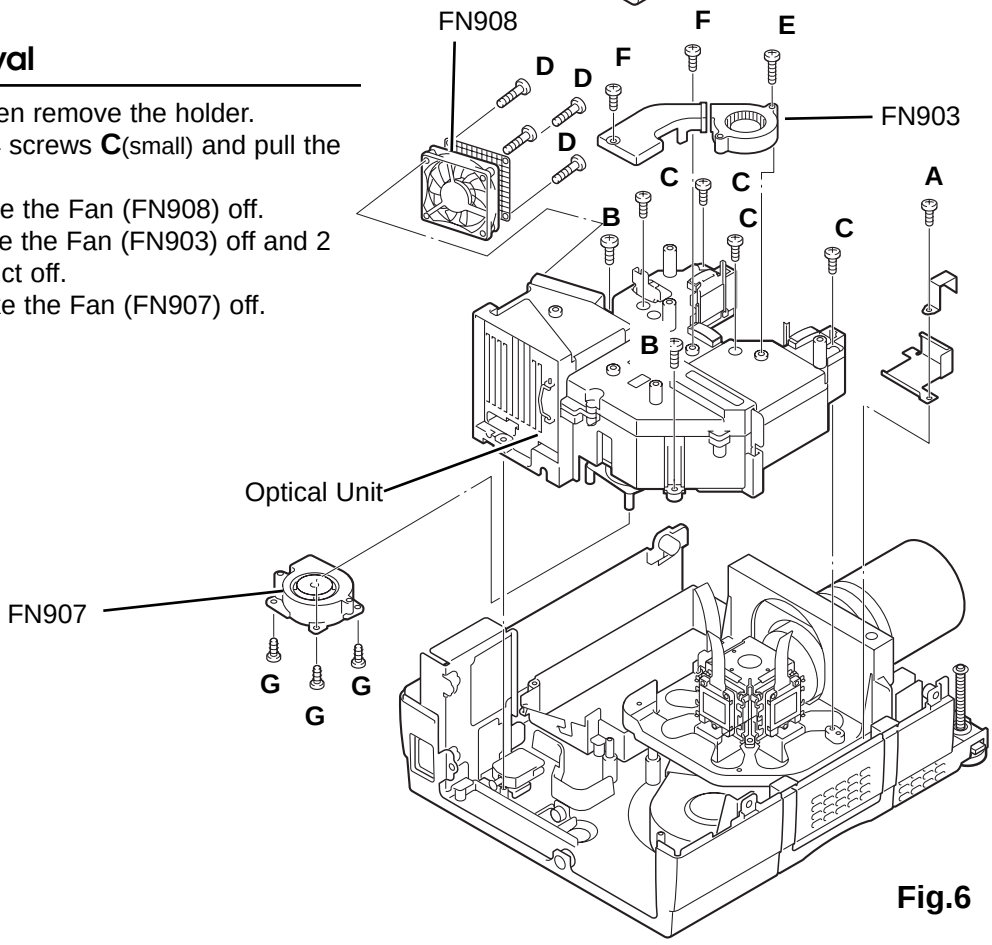


Fig.6

7 Prism Base removal

1 Remove 2 screws **A** to take the Prism Base ass'y upward off.
2 Remove 2 screws **B** to take the Lens Shift Motor and Sensor SW Holder from the Base.

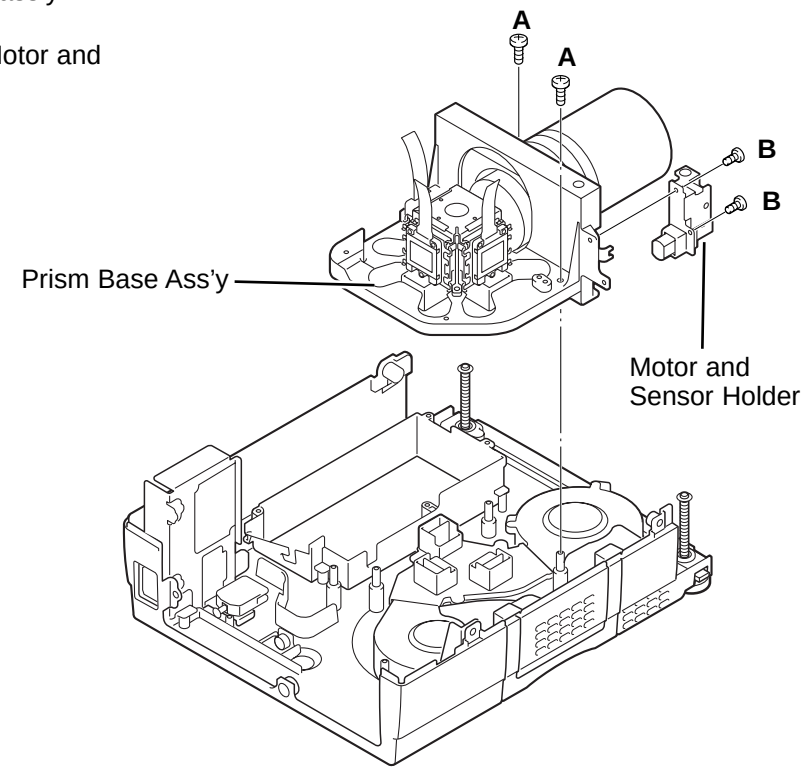


Fig.7

8 Power Board removal

1 Remove 3 screws **A** to take the Power Board off.
2 Remove 4 screws **B** to take Holder off from the cabinet bottom.

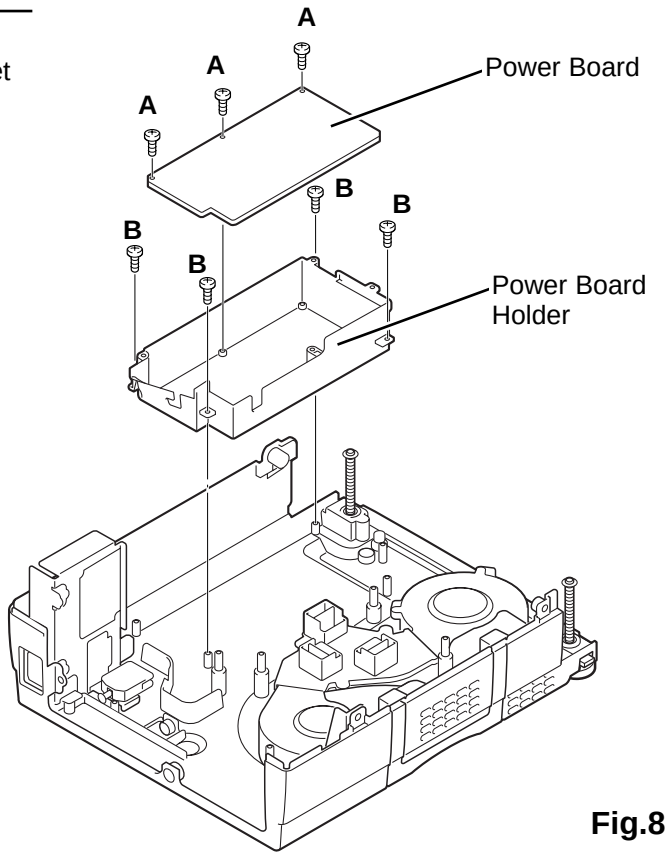


Fig.8

9 Filter Board & Interlock SW & Thermal SW removal

1 Remove 1 screw **A** to take Interlock Switch(SW902).
2 Remove 2 screws **B** to take Filter Board Holder and remove 2 screws **C** to take Filter Board from the Holder.
3 Remove 1 screw **D** to take Thermal Switch(SW905).

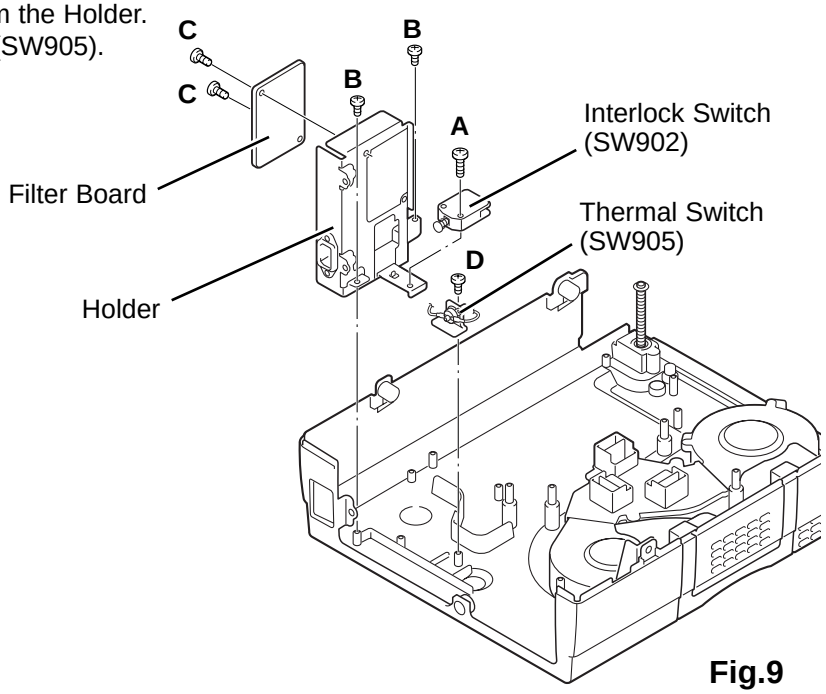


Fig.9

10 Fans (FN901, FN902) removal

1 Remove 4 screws **A** to take Air-duct Top off.
2 Remove 1 screw **B** (small) and 1 screw **C** (big) to take Duct Cover-A.
3 Remove 2 screws **D** to take Fan (FN901) off.
4 Remove 1 screw **E** (small) and 2 screws **F** (big) to take Air-duct-A and Fan (FN902) off.

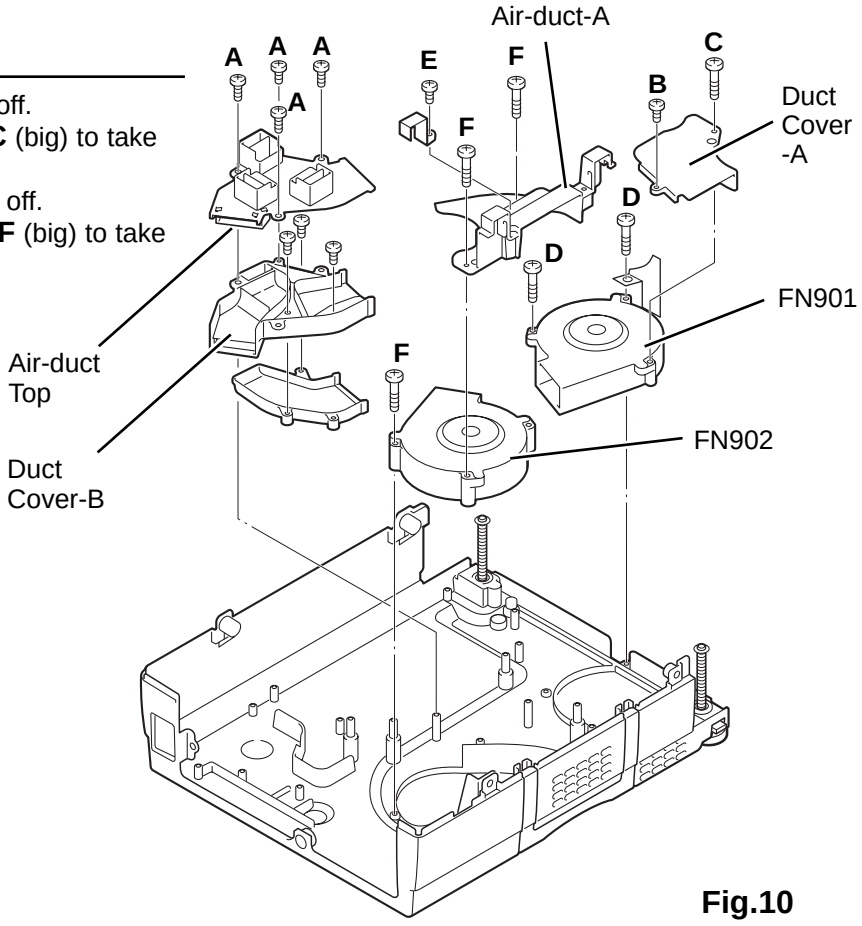


Fig.10

■ Optical Parts Disassemblies

Before taking this procedure, remove Cabinet Top and Main Board following to the “Mechanical Disassemblies”. Disassembly requires a 2.0mm or 2.5mm hex wrench and a slot screwdriver.

Projection Lens removal

1 Shift the Projection lens to the low end by the LENS SHIFT function.
2 Remove Cabinet Front-Top following to the chapter “Mechanical Disassemblies”.
3 Slide the lens lock lever **A** on the projector to " UNLOCK" (UPPER) position and remove the Projection Lens ass’y off.
Note : When making unlocking, attach your hand to prevent the lens fall.
4 Disconnect the connector and remove 4 screws **B** and take the Projection lens from the lens attachment.

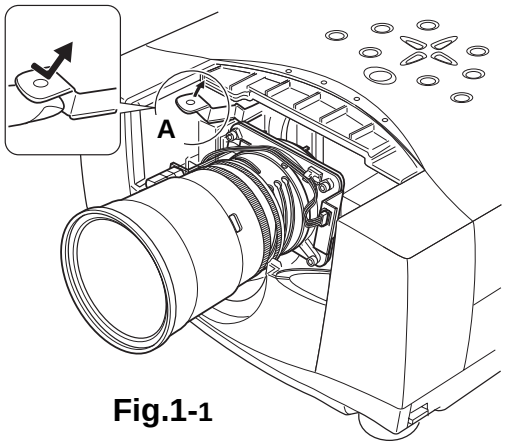


Fig.1-1

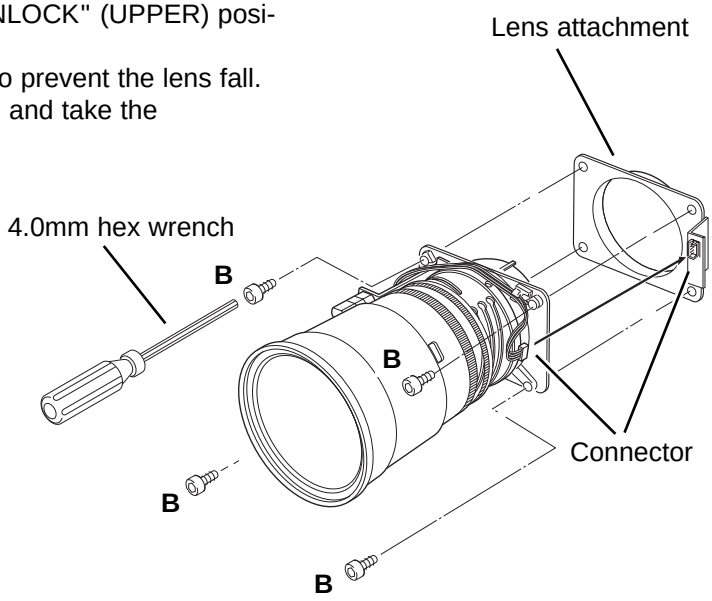


Fig.1-2

Polarized Glass-In removal

1 Remove each hex screw and pull the Polarized Glass-In ass’y upward.
2 Remove a stopper and take the glass off upward.

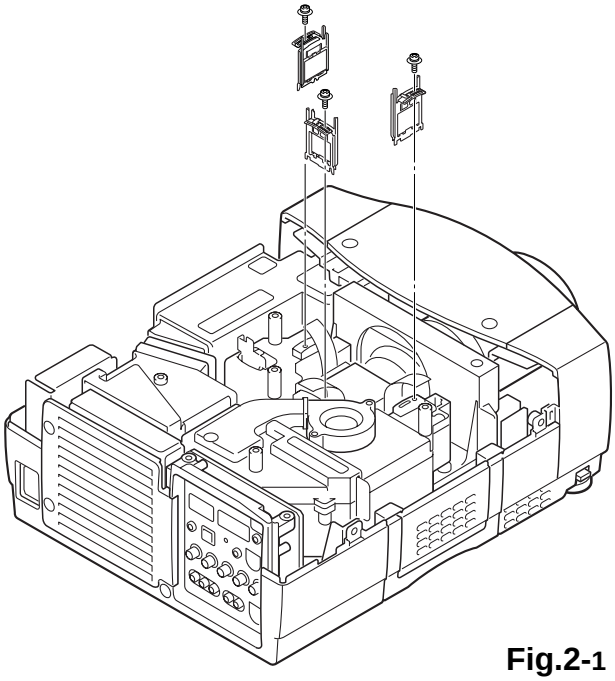


Fig.2-1

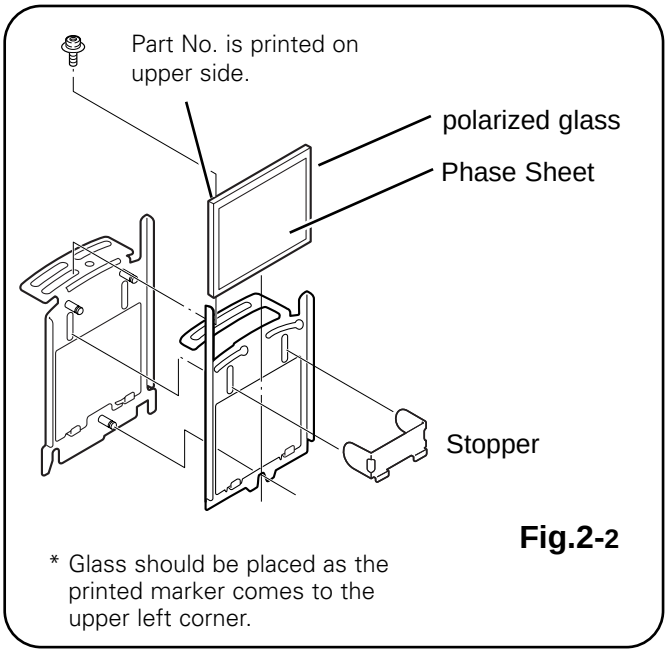

Part No. is printed on upper side.
polarized glass
Phase Sheet
Stopper
* Glass should be placed as the printed marker comes to the upper left corner.

Fig.2-2

Relay Lens disassembly

1 Remove 2 hex screws **A** and pull the Relay Lens ass'y upward.
2 Remove 2 screws **B** to take the Lens off from the holder.
Note:
There is no mounting direction of the lens.

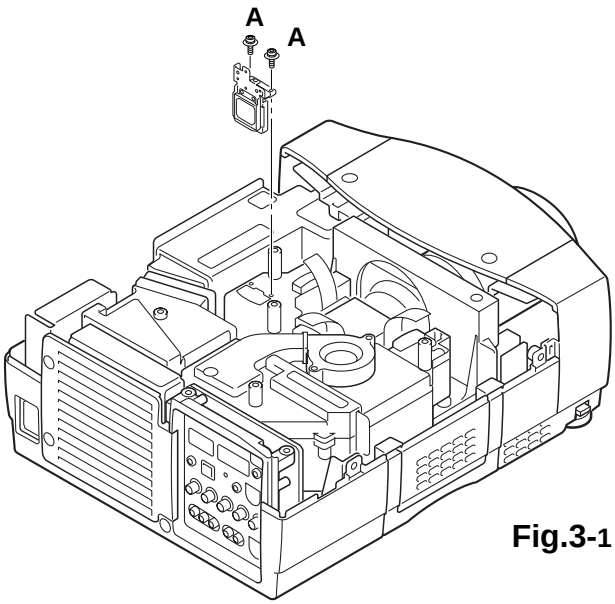


Fig.3-1

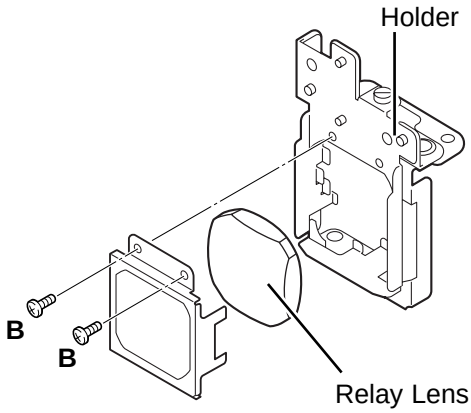


Fig.3-2

Polarized Glass-Out and Wide view Glass removal

1 Remove 4 hex screws **A** and take the LCD/Prism ass'y off upward.
2 Remove 3 screws **B** and take the Glass Holder, and then pull the polarized Glass-Out and the wide view glass upwards off. These glasses are mounted for R, G and B LCD panels respectively.
Note:
To avoid the CG and focus alignments slipping off, please be careful to handle the LCD/Prism ass' y.

Note:
Do not replace the LCD panel separately otherwise it can not obtain proper picture.

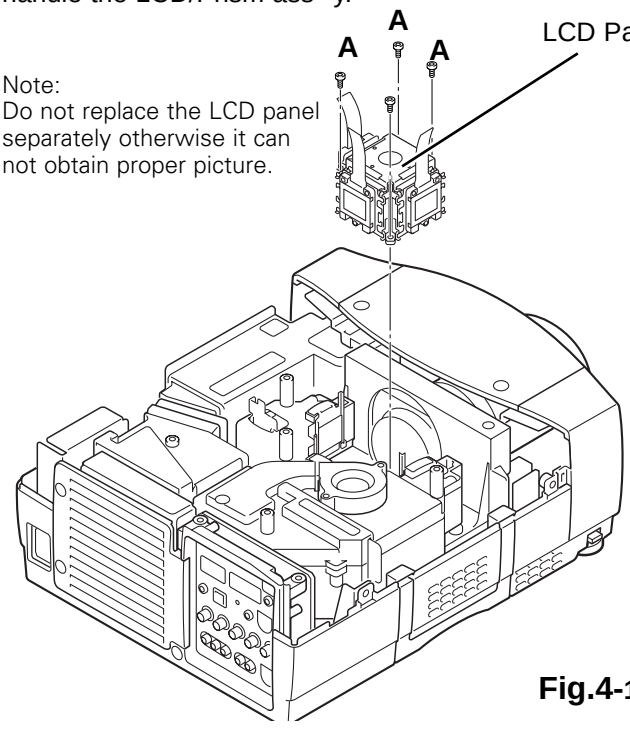
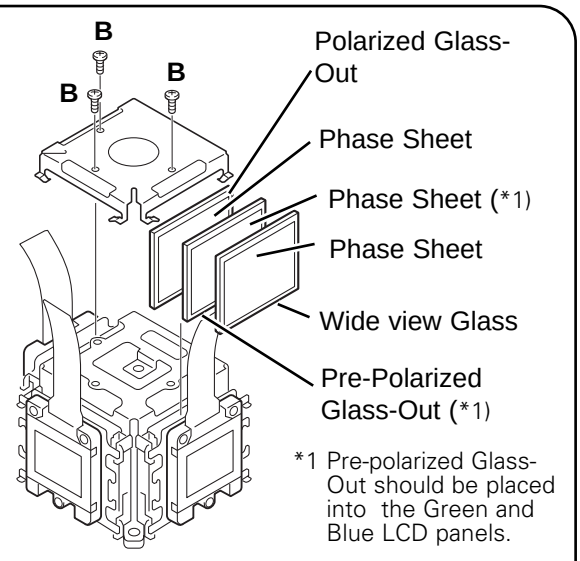


Fig.4-1



*1 Pre-polarized Glass-Out should be placed into the Green and Blue LCD panels.

*2 Glasses should be placed as the sheet attached side comes to the LCD panel side.

Fig.4-2

Optical Unit Top removal

1 Remove 7 screws to take the Optical Unit Top off upward.

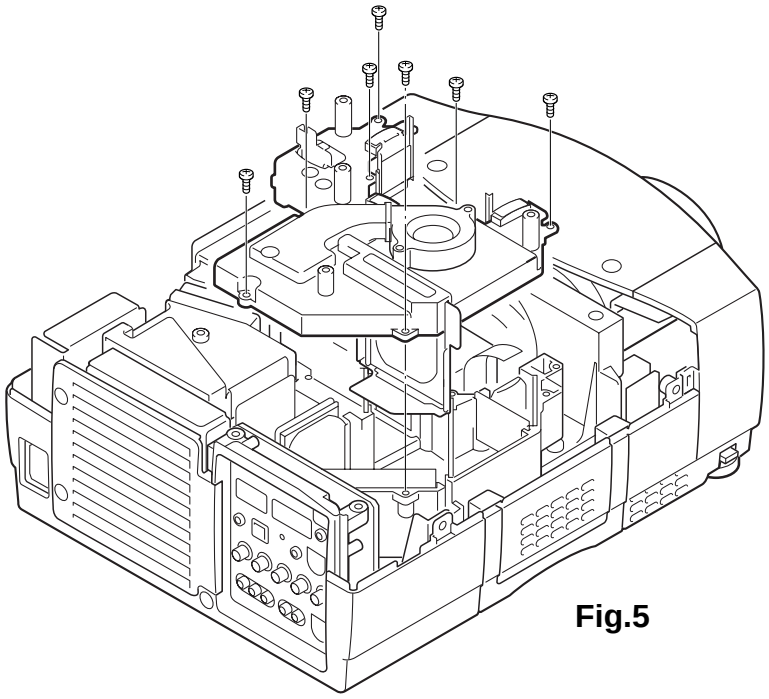


Fig.5

Condenser Lens disassembly

1 Remove 2 hex screws **A** and take the Condenser Lens ass'y.
2 Release 4 hooks **B** to take the Lens off from the holder.

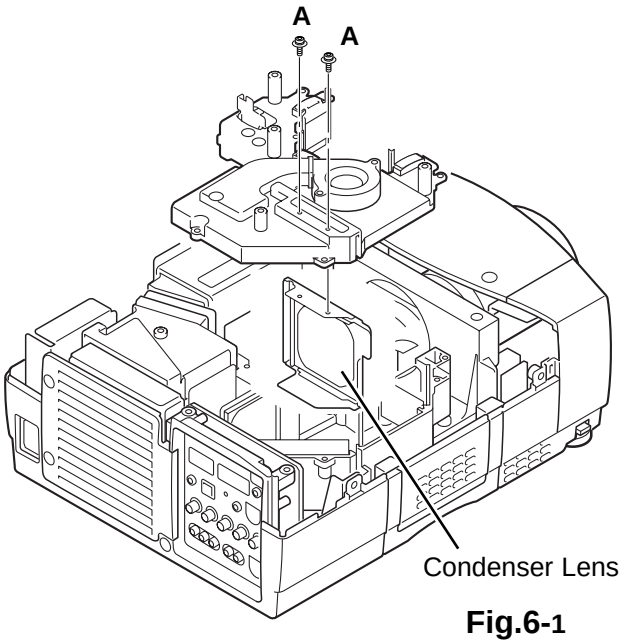


Fig.6-1

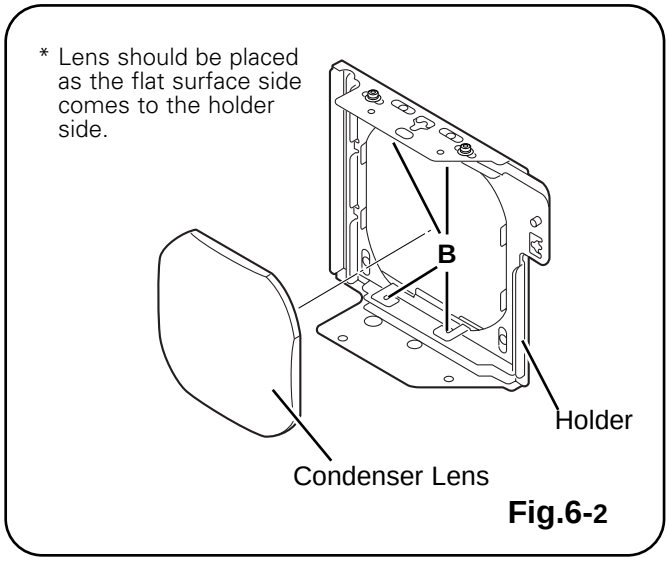


Fig.6-2

Locations and Directions

When the optical parts in the optical unit mounting or assembling, the parts must be mounted in the specified location and direction as shown in figure below.

Key No.	Description
1	Condenser lens (R)
2	Condenser lens
3	Condenser lens
4	Mirror (B)
5	Optical filter (UV cut)
6	Dichroic mirror (B
7	Dichroic mirror (G)
8	Mirror (W)
9	Condenser lens (IN)
10	PBS (prism beam splitter)
11	Integrator lens (OUT)
12	Integrator lens (IN)
13	Relay lens (IN)
14	Mirror (R)

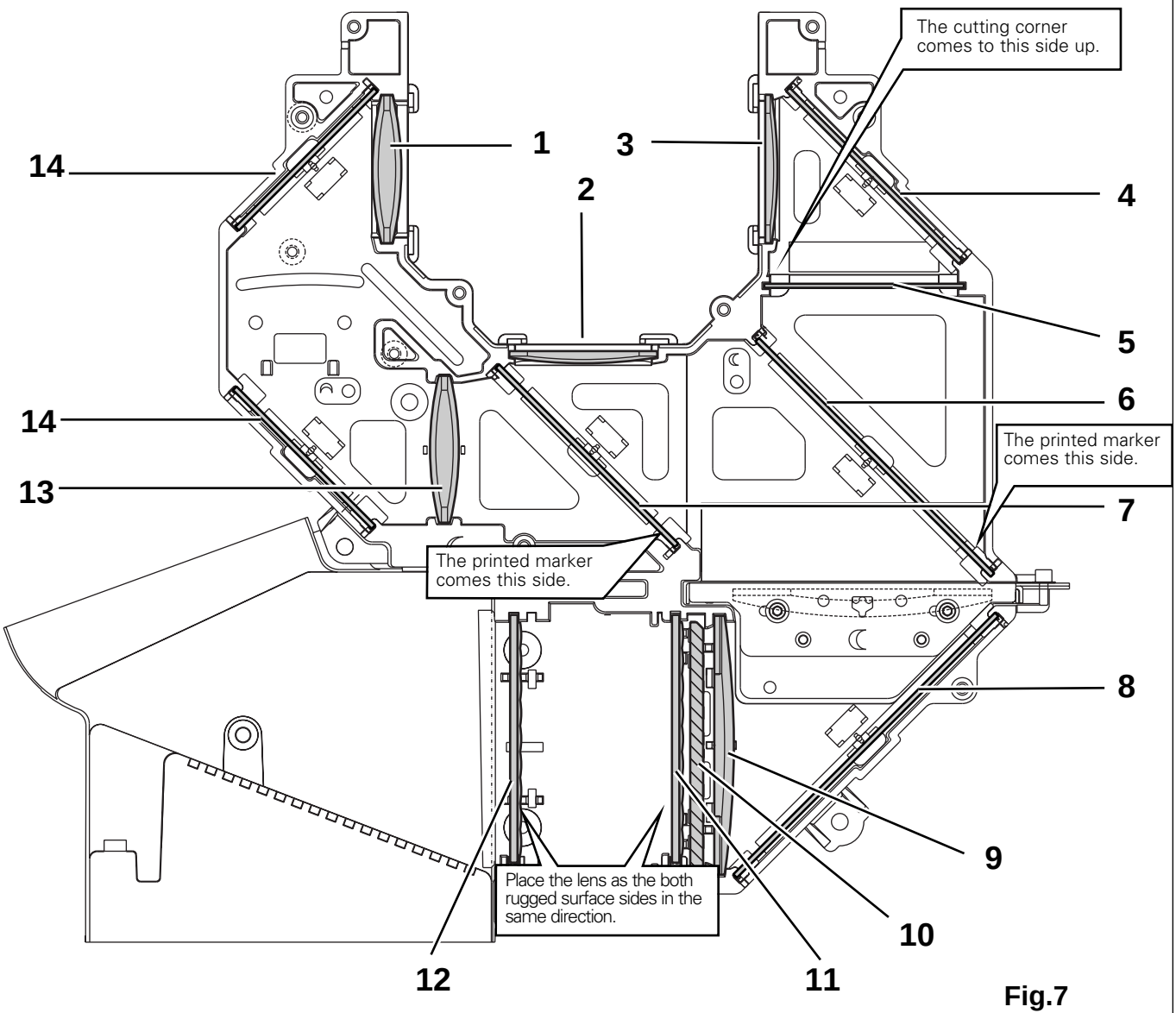


Fig.7

■ LCD Panel/Prism Ass'y Replacement

IMPORTANT NOTICE on LCD Panel/Prism Ass'y Replacement

LCD panels used for this model can not be replaced separately. Do not disassemble the LCD Panel/Prism Ass'y. These LCD panels are installed with precision at the factory. When replacing the LCD panel, should be replaced whole of the LCD panels and prism ass'y at once.

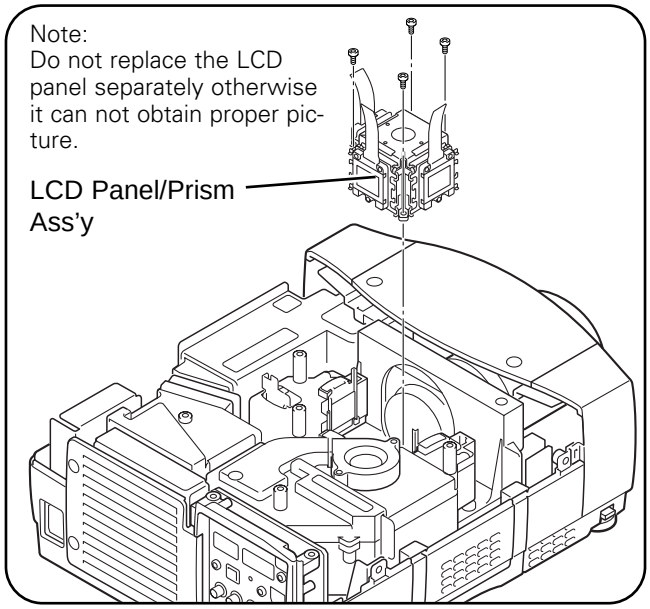
After replacing LCD Panel/Prism ass'y, please check the following adjustments.

- Check the "Condenser Lens Adjustment" and "Relay Lens Adjustment" following to chapter "Optical Adjustment".
- Check the "White Balance Adjustment" and "Common Centre Adjustment" following to chapter "Electrical Adjustment".
- Check the white uniformity on the screen.
  If you find the color shading, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION SOFTWARE
Service Parts No. 645 056 6288

LCD Panel/Prism Ass'y removal

1 Remove the cabinet top and main board following to "Mechanical Disassemblies".
2 Remove 4 screws by using the 2.0 mm hex driver and take the LCD Panel/Prism ass'y off upward from the optical unit.

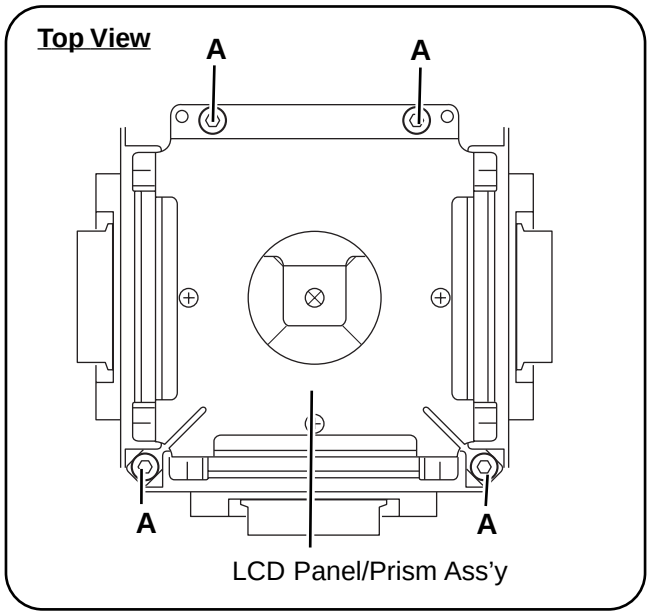


Note on LCD Panel/Prism Ass'y Mounting

After replacing or installing the LCD Panel/Prism ass' y, please make sure to obtain the best focus in both TELE and WIDE zoom. If the focus adjustment is required, please adjust the positioning of LCD Panel/Prism Ass'y by following the below procedure.

Mounting Procedure:

1 Loosen 4 screws **A** on the LCD Panel/Prism ass' y with 2.0 mm hex driver.
2 Turn the projector on and project the image with WIDE zoom, and adjust the FOCUS control to obtain the best focus.
3 Turn the ZOOM control to the TELE position.
4 Move the LCD Panel/Prism Ass'y backward or forward (about 0mm ~ 0.8mm) to obtain the proper focus. Confirm the focus at TELE and WIDE zoom.
5 Tighten 4 screws **A** to fix the LCD Panel/Prism ass' y.

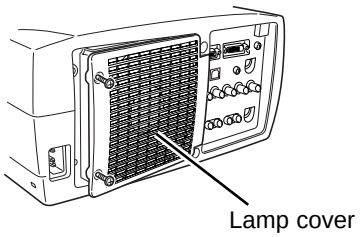


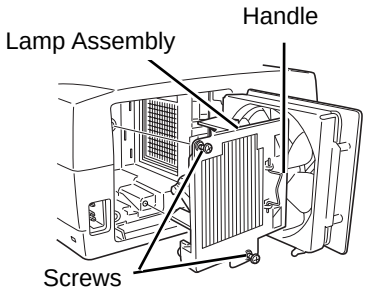
■ Lamp Replacement

WARNING:
- For continued safety, replace with a lamp assembly of the same type.
- Allow the projector to cool for at least 45 minutes before you open the lamp cover. The inside of the projector can become very hot.
- Do not drop the lamp module or touch the glass bulb! The glass can shatter and cause injury.

ORDER REPLACEMENT LAMP

Type No.	Service Parts No.
POA-LMP67	610 306 5977





Procedure

1 Turn off the projector and disconnect the AC cord. Allow the projector to cool for at least 45 minutes.
2 Loosen 2 screws with a screwdriver and open the lamp cover.
3 Loosen 2 screws and pull out the lamp assembly by grasping the handle.
4 Replace the lamp assembly securely and tighten 2 screws.
5 Close the lamp cover and tighten 2 screws.
6 Connect the AC cord to the projector and turn on.

7 Reset the Lamp Replace Counter, see below explanation.

Note:
- Do not reset the Lamp Replace Counter, except after lamp is replaced.
- The projector can not be turned-on with lamp cover removed, because when the lamp cover is removed, the interlock switch is also released to switch off the mains power for safety.

How to reset Lamp Replace Counter

1 Turn the projector on, and press the **MENU** button and the on-screen menu will appear. Press the **POINT LEFT/RIGHT** buttons to move a red frame pointer to SETTING menu icon.
2 Press the **POINT DOWN** button to move a red frame pointer to “Lamp counter reset” and then press the **SELECT** button. The message “Lamp replace counter reset?” is displayed. Move the pointer to [Yes] and the press the **SELECT** button.
3 Another confirmation dialog box appears and select [Yes] to reset Lamp Replace Counter .

Please refer to the owners manual for further information.

Recommendation

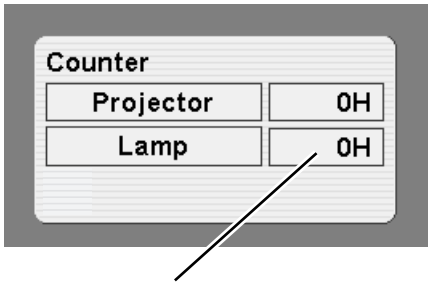
Should the air filter become clogged with dust particles, it will reduce the cooling fan’s effectiveness and may result in internal heat build up and short lamp life. We recommend cleaning the air filter after the projection lamp is replaced.
Refer to “Air Filter Cleaning”.

How to check Lamp Replace Counter

The LAMP REPLACEMENT indicator will illuminate when the Lamp Replace Counter reaches 1500 hours. This is to indicate that lamp replacement is required.

You can check the lamp replace counter following to below procedure.
1 Press and hold the **POWER** button on the projector or the remote control unit for more than 20 seconds.
2 The Lamp replace Counter service menu appears on the center of the screen briefly.

Remark :
The upper display " Projector Counter" is not reset by resetting Lamp Replace Counter.



Lamp replace counter data

■ Optical Adjustments

Before taking optical adjustments below, remove the Cabinet Top and Main Board following to the “Mechanical Disassemblies”
Adjustments require a 2.0mm hex wrench and a slot screwdriver.
Note: Do not disconnect connectors K8L, K8X, K8D, K8G and K8E on the main board, because the projector can not turn on due to operate the power failure protection.

Contrast adjustment

[Before Adjustment]
- Input a 100% of black raster signal.

[R/G/B-CONTRAST ADJUSTMENT]

1 Loosen a screw **A** (**Fig.1-1/1-2**) on the polarized glass mounting base which you intend to adjust.
2 Turn the polarized glass mounting ass' y and the polarized glass mounting base at the same time as shown in **Fig.1-1** to obtain the darkest brightness on the screen.
Note: Both of them should be moved at the same time and in the same direction.
3 Tighten the screw **A** to fix the polarized glass mounting base.

Repeat steps 1 to 3 for remaining polarized glasses.

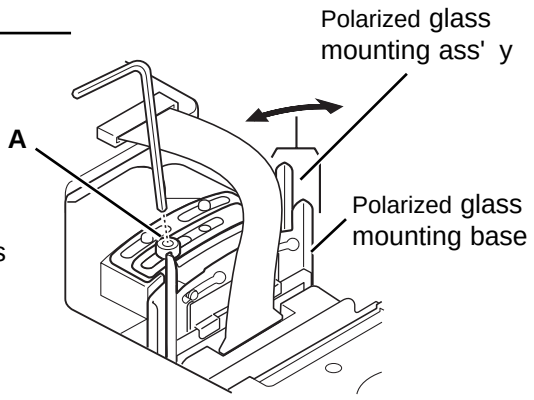


Fig.1-1

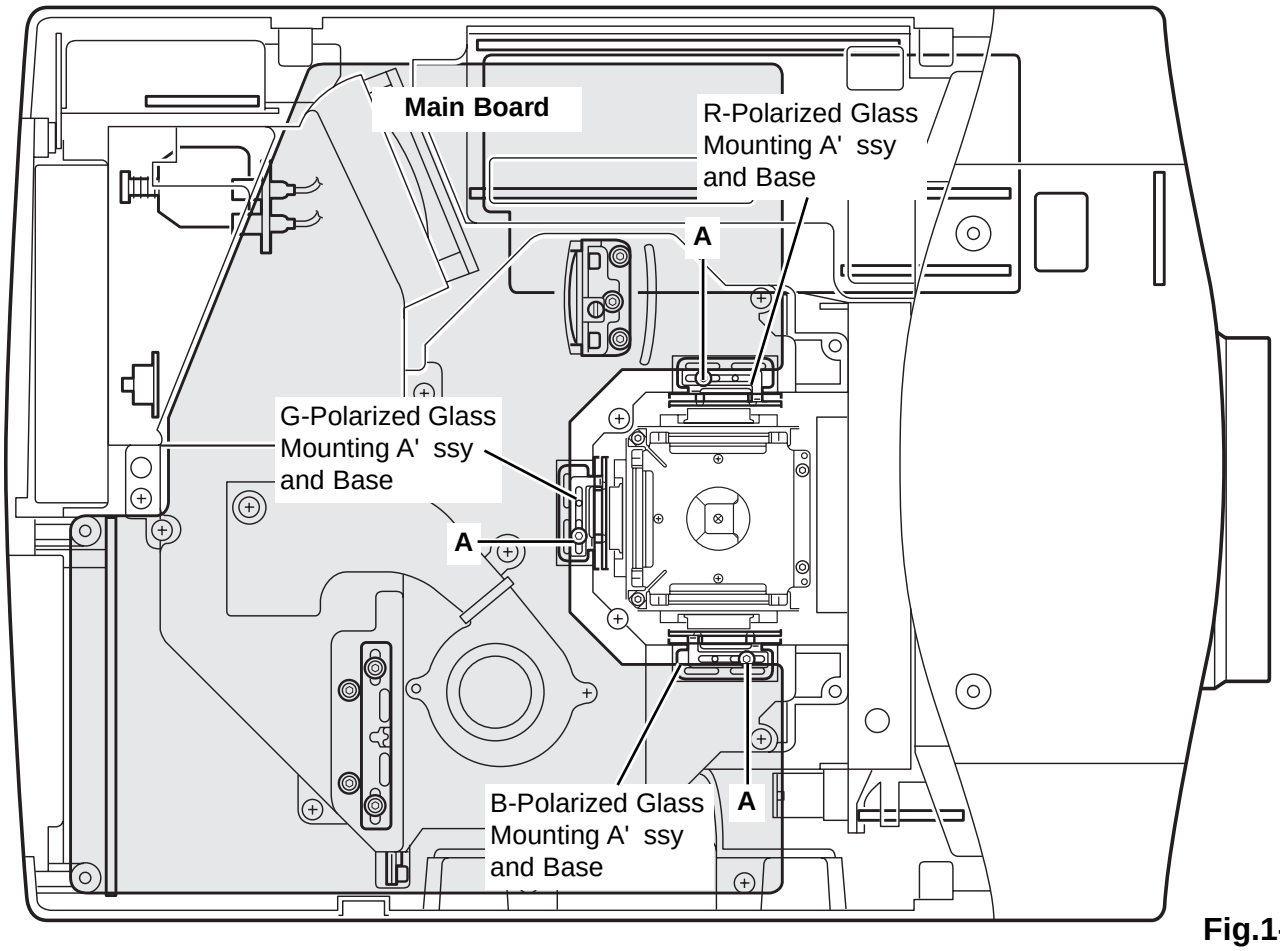


Fig.1-2

Condenser Lens adjustment

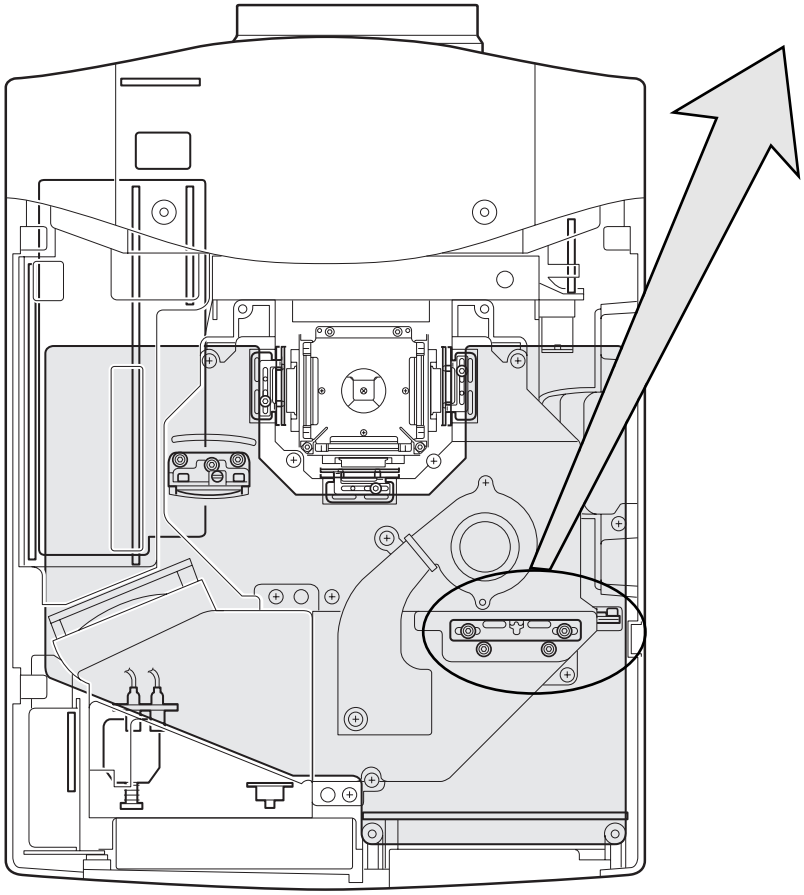
1 Turn the projector on by a state of without FPC cables.

2 Adjust the adjustment base of condenser lens ass'y to make color uniformity in white.

1) If the shading appears on the left or right of the screen as shown in **Fig.2-1**, loosen 2 screws **A** with the 2.0mm hex driver, and adjust the slot **B** to make color uniformity in green by using a slot screwdriver.
2) If the shading appears on the top or bottom of the screen as shown in **Fig.2-2**, loosen 1 screw **C** with the 2.0mm hex driver, and adjust the slot **D** to make color uniformity in green by using a slot screwdriver

3 Tighten screws **A** and **C** to fix the Condenser lens unit.

Note:
The relay lens adjustment must be carried out after completing this adjustment.



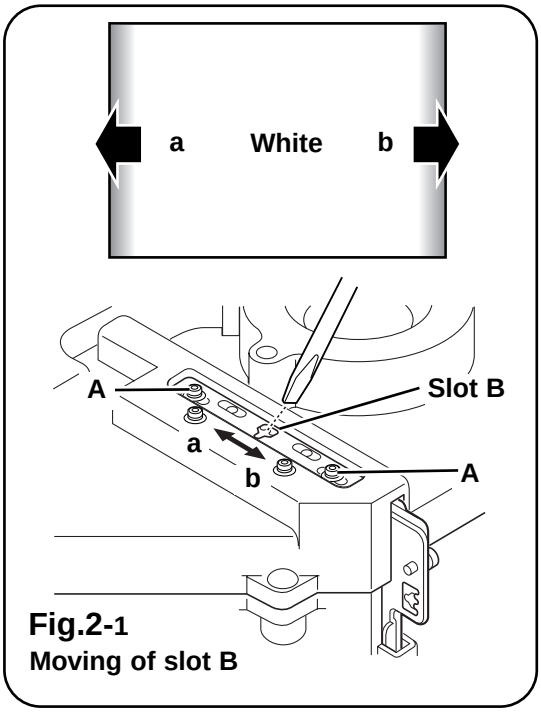


Fig.2-1
Moving of slot B

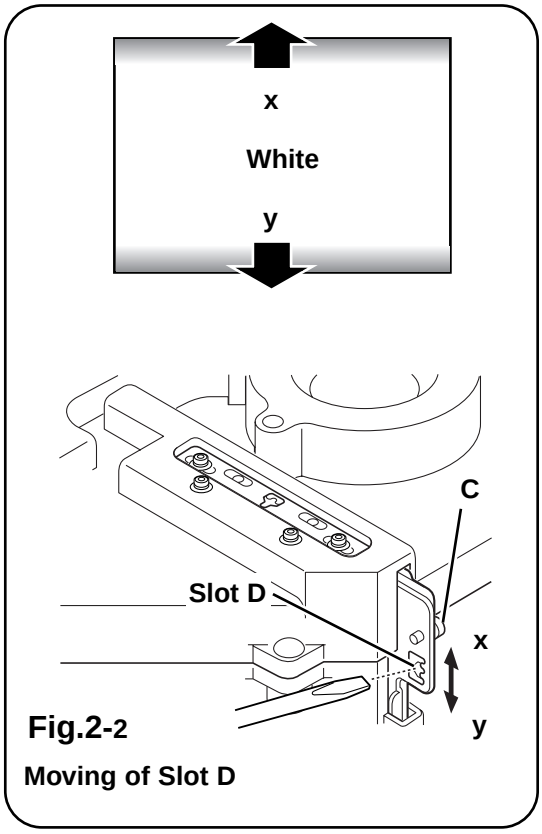


Fig.2-2
Moving of Slot D

Relay lens-Out adjustment

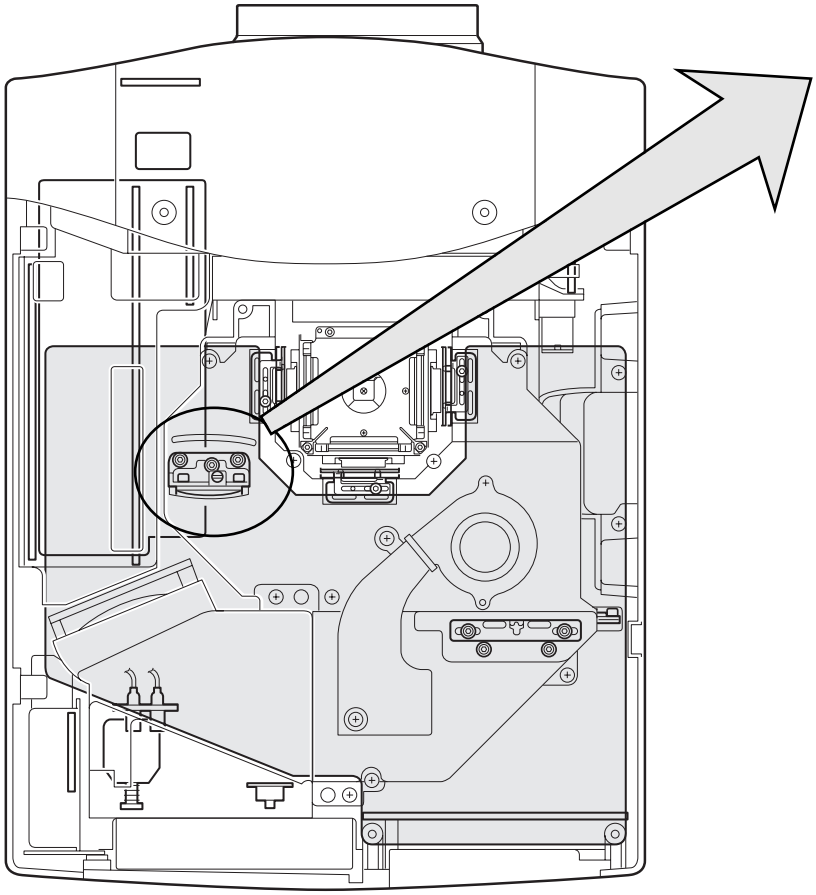
1 Turn the projector on by a state of without FPC cables.

2 Adjust the adjustment base of relay lens ass'y to make color uniformity in white.

1) If the cyan bar appears on the left or right of the screen as shown in **Fig.4-1**, loosen 1 screw **A** with the 2.0mm hex driver, and adjust the slot **B** to make color uniformity in white by using a slot screwdriver.

2) If the cyan bar appears on the top or bottom of the screen as shown in **Fig.4-2**, loosen 2 screws **C** with the 2.0mm hex driver, and adjust the screw **D** to make color uniformity in white by using a slot screwdriver.

3 Tighten the screws **A** and **C** to fix the relay lens unit.



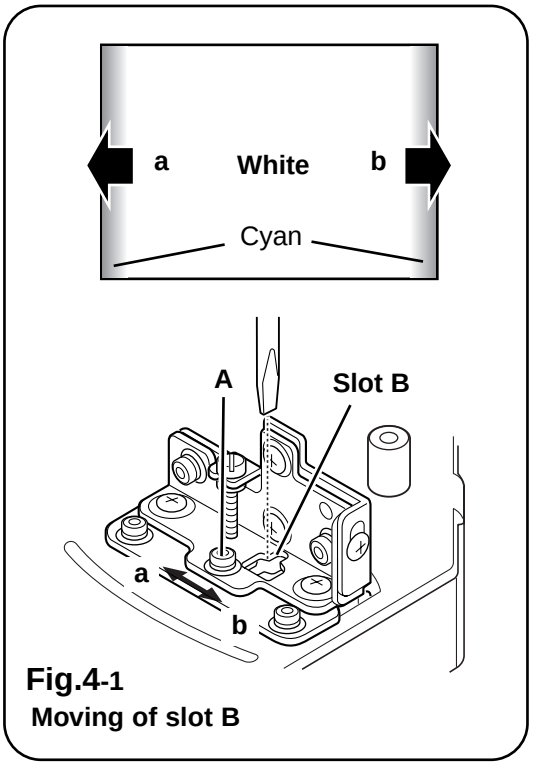


Fig.4-1
Moving of slot B

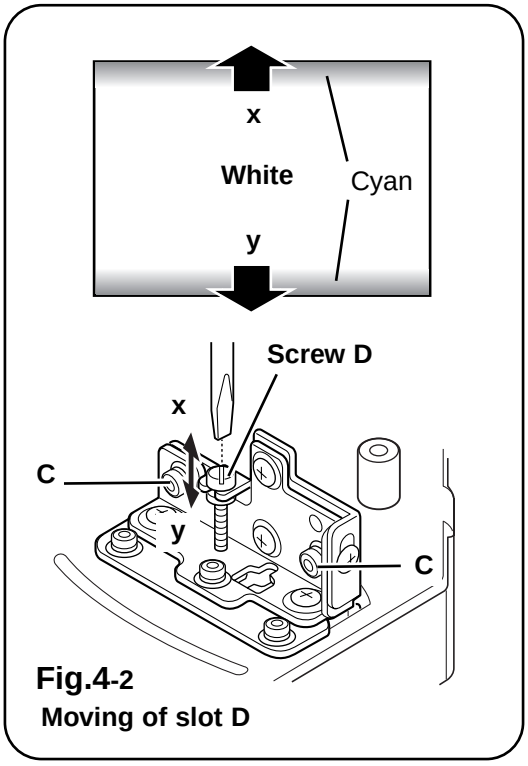


Fig.4-2
Moving of slot D

■ Electrical Adjustments

● Service Adjustment Menu Operation

To enter the service mode

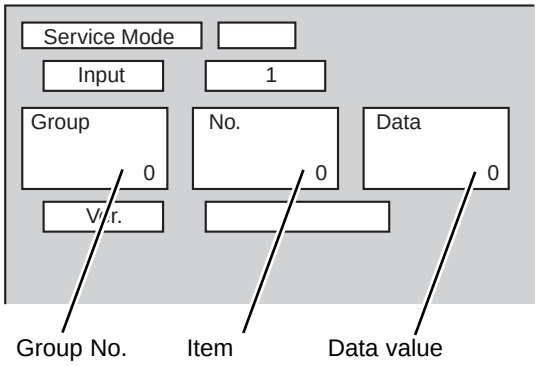
To enter the “Service Mode”, press and hold the **MENU** and **IMAGE button** on the projector at the same time for more than 3 seconds, or press and hold the **MENU button** on the remote control unit for more than 20 seconds. The service menu appears on the screen as follows.

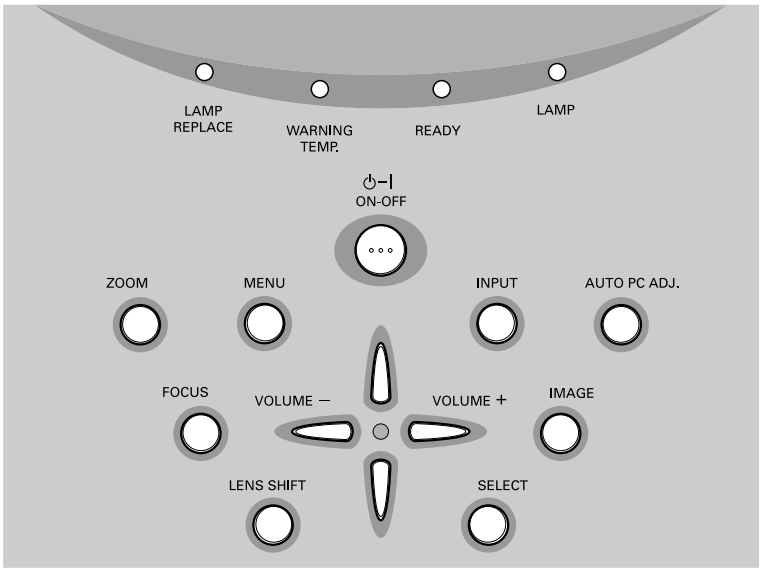
To adjust service data

Select the adjustment group no. by pressing the **MENU** or **IMAGE button**, and select the adjustment item no. by pressing the pointer **UP** or **DOWN button**, and change the data value by pressing the **VOLUME –** or **VOLUME + button**. Refer to the “Service Adjustment Data Table” for further description of adjustment group no., item no. and data value.

To exit the service mode

To exit the service mode, press the **POWER ON-OFF button** on the projector or remote control unit.





● Memory IC Replacement

IC808 on the main board stores the data for the service adjustments, and should not be replaced except for the case of defective device.
If replaced, it should be performed the re-adjustments following to the “Electrical Adjustments”.
The data of lamp replacement monitor timer is stored in the IC808.
Please note that the lamp replace counter is reset when the memory IC (IC808) is replaced.
(Lamp replace counter can not be set to the previous value.)

● Caution to memory IC replacement

When IC808 is replaced with new one, the CPU writes down the default data of the service adjustments to the replaced IC, refer to the service adjustment table. As these data are not the same data as factory shipped data, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
Please note that the lamp replace counter is reset.

● Caution of Main Board replacement (in the case IC808 is not defective)

When the main board is replaced, IC808 should be replaced with the one on previous main board. After replacement, it should be required to perform the re-adjustments following to the “Electrical Adjustments”.
In this case, the lamp replace counter can be kept the value as before.

● Circuit Adjustments

CAUTION: The each circuit has been made by the fine adjustment at factory. Do not attempt to adjust the following adjustments except requiring the readjustments in servicing otherwise it may cause loss of performance and product safety.

[Adjustment Condition]

● Input signal

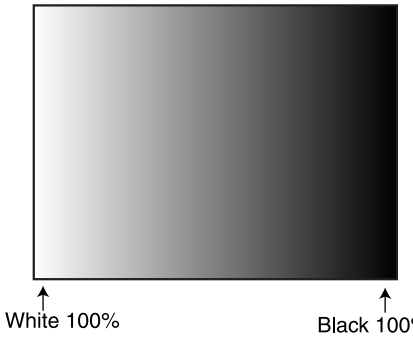
Video signal ..... 1.0Vp-p/75Ω terminated, 16 steps gray scale, white 100% and black 0% pattern (Composite video signal)

Computer signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale pattern (XGA)

Component Video signal..... 0.7Vp-p/75Ω terminated, 16 steps gray scale, white 100% and black 0% pattern (480i format)

RGB Video signal ..... 0.7Vp-p/75Ω terminated, 16 steps gray scale, white 100% and black 0% pattern (480p format)

16 steps gray scale pattern



● Picture control mode ..... "STANDARD" mode unless otherwise noted.

Note:

* Please refer to "Service Adjustment Menu Operation" for entering to the service mode and adjusting the service data.

1 Output Voltage adjustment

After replacing the Power Board readjust the Output voltage adjustment as follows.

1. Connect a digital voltmeter to pin 1 (+) of **K6A** and chassis ground (-).
2. Adjust the voltage by using **VR601** on the power board as following.

AC Input	Reading
230V	370 ±2Vdc
120V	356 ±2Vdc

Caution:
Be sure to connect the lamp when taking this adjustment.

2 +16V adjustment

1. Receive the 16-step gray scale video signal with **Input 3 [VIDEO]** mode.
2. Connect a digital voltmeter to pin 3 (+) of **CN6A** and chassis ground (-).
3. Adjust the voltage to be **15.8** ±0.1Vdc by using **VR681** on the power board.

Note:
The Power Board for replacing is already adjusted in the factory, so it is not required to perform readjustment of item1 and 2.

3 Fan Voltage adjustment

1. Enter the service mode.
2. Connect a digital multimeter to test point "**TPFN❊**" (+) and chassis ground (-). (as shown below)
3. Select group no. "**11**", item no. "**24**" and change data value of the fan number. (as shown below)
4. Select item no."**41**" and change data value to adjust the fan max. output voltage to be **14.0** ±0.1V.
5. Select item no."**42**" and change data value to adjust the fan min. output voltage to be **6.5** ±0.1V.
6. Each fan should be adjusted refer to item 2 - 5.

Note:
The location of each fan is refer to the parts list.

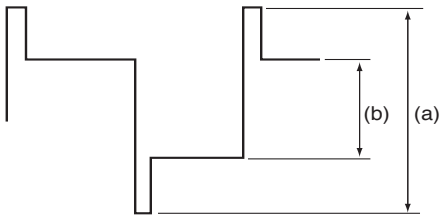
FAN No.	Group/Item	Data	Test point
FN901	11 / 24	0	TPFN1
FN902	11 / 24	0	TPFN1
FN903	11 / 24	2	TPFN3
FN904	11 / 24	5	TPFN4
FN905	11 / 24	1	TPFN5
FN906	11 / 24	4	TPFN6
FN907	11 / 24	3	TPFN7

4 Video Center adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Connect a digital voltmeter to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**6**" and change data value to adjust the voltage to be **7.50** ±0.1Vdc.
5. Connect a digital voltmeter to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**7**" and change data value to adjust the voltage to be **7.50** ±0.1Vdc.
7. Connect a digital voltmeter to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**8**" and change data value to adjust the voltage to be **7.70** ±0.1Vdc.

5 PSIG adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP533**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**18**" and change data value to adjust amplitude "**a**" to be **10.0** ±0.1V.
4. Select item no. "**21**" and change data value to adjust amplitude "**b**" to be **4.0** ±0.1V.
3. Connect an oscilloscope to test point "**TP503**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**20**" and change data value to adjust amplitude "**a**" to be **10.0** ±0.1V.
5. Select item no. "**23**" and change data value to adjust amplitude "**b**" to be **4.0** ±0.1V.

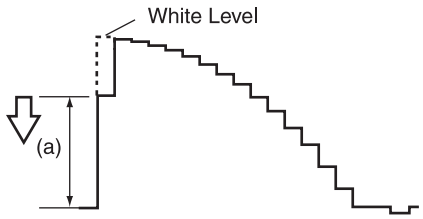


6 PC Pedestal adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Select group no. "**500**", item no. "**0**" and change data value to adjust the **green** noise on the white 0% area of screen to the first point of the deepest green.
4. Select item no. "**1**" and change data value to adjust the **blue** noise on the white 0% area of screen to the first point of the deepest blue.
4. Select item no. "**2**" and change data value to adjust the **red** noise on the white 0% area of screen to the first point of the deepest red.

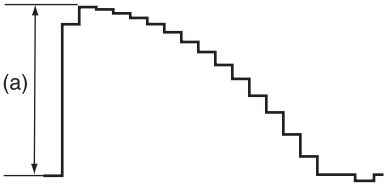
7 PC Gain adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**0**" and change data value to adjust waveform "**a**" to be minimum amplitude.
5. Connect an oscilloscope to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust waveform "**a**" to be minimum amplitude.
7. Connect an oscilloscope to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust waveform "**a**" to be minimum amplitude.



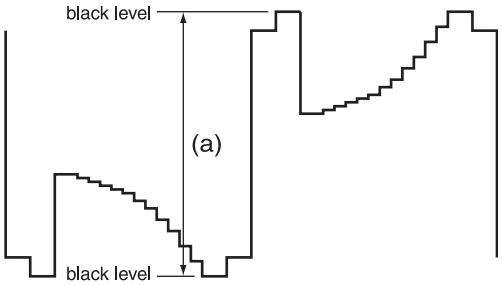
8 PC gamma gain adjustment

1. Receive the 16-step gray scale video signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**9**" and change data value to adjust amplitude "**a**" to be **4.0** ±0.1V.
5. Connect an oscilloscope to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**10**" and change data value to adjust amplitude "**a**" to be **4.0** ±0.1V.
7. Connect an oscilloscope to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**11**" and change data value to adjust amplitude "**a**" to be **4.0** ±0.1V.



9 PC black Level adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**12**" and change data value to adjust amplitude "**a**" to be **9.8** ±0.1V.



10 Video A/D reference voltage (bottom side) adjustment

1. Receive the 16-step gray scale computer signal with **Input 3 [Video]** mode.
2. Enter the service mode.
3. Connect a digital voltmeter to test point "**TPVRB**" (+) and chassis ground (-).
4. Select group no. "**5**", item no. "**17**" and change data value to adjust the voltage to be **0.70** ±0.03Vdc.

11 Video Y pedestal adjustment

1. Receive the black 0% composite video signal with **Input 3 [Video]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**11**" and change data value to adjust the **green** noise on the screen to the deepest green.

12 Video A/D reference voltage (top side) adjustment

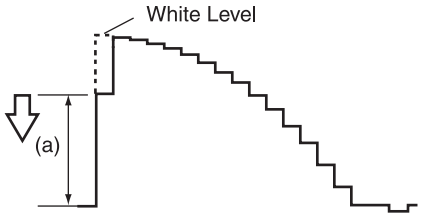
1. Receive the white 100% composite video signal with **Input 3 [Video]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**18**" and change data value to adjust the **magenta** noise on the screen to the deepest magenta.

13 Video Cb/Cr pedestal adjustment

1. Receive the black 0% composite video signal with **Input 3 [Video]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**12**" and change data value to adjust the **blue** noise on the screen to the deepest blue.
4. Select group no. "**5**", item no. "**13**" and change data value to adjust the **red** noise on the screen to the deepest red.

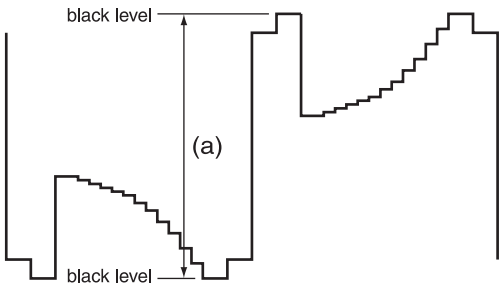
14 Video Gain adjustment

1. Receive the 16-step gray scale computer signal with **Input 3 [video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**0**" and change data value to adjust waveform "**a**" to be minimum amplitude.
5. Connect an oscilloscope to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust waveform "**a**" to be minimum amplitude.
7. Connect an oscilloscope to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust waveform "**a**" to be minimum amplitude.



15 Video black Level adjustment

1. Receive the 16-step gray scale computer signal with **Input 3 [Video]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**12**" and change data value to adjust amplitude "**a**" to be **9.8** ±0.1V.



16 Component Y pedestal adjustment

1. Receive the black 0% component 480i video signal with **Input 3 [Component]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**11**" and change data value to adjust the **green** noise on the screen to the deepest green.

17 Component A/D reference voltage (top side) adjustment

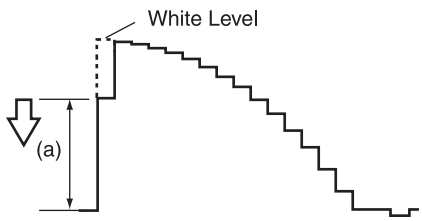
1. Receive the white 100% component 480i video signal with **Input 3 [Component]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**18**" and change data value to adjust the **magenta** noise on the screen to the deepest magenta.

18 Component Cb/Cr pedestal adjustment

1. Receive the black 0% component 480i video signal with **Input 3 [Component]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**12**" and change data value to adjust the **blue** noise on the screen to the deepest blue.
4. Select item no. "**13**" and change data value to adjust the **red** noise on the screen to the deepest red.

19 Component Gain adjustment

1. Receive the 16-step gray scale component 480i signal with **Input 3 [Component]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**0**" and change data value to adjust waveform "**a**" to be minimum amplitude.
5. Connect an oscilloscope to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust waveform "**a**" to be minimum amplitude.
7. Connect an oscilloscope to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust waveform "**a**" to be minimum amplitude.



20 RGB G pedestal adjustment

1. Receive the black 0% RGB 480p video signal with **Input 2 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**11**" and change data value to adjust the **green** noise on the screen to the deepest green.

21 RGB A/D reference voltage (top side) adjustment

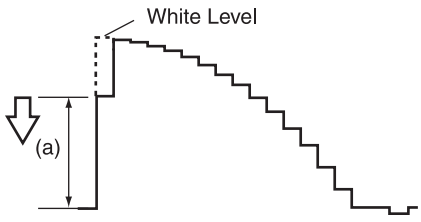
1. Receive the white 100% RGB 480p video signal with **Input 2 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**18**" and change data value to adjust the **magenta** noise on the screen to the deepest magenta.

22 RGB B/R pedestal adjustment

1. Receive the black 0% RGB 480p video signal with **Input 2 [RGB]** mode.
2. Enter the service mode.
3. Select group no. "**5**", item no. "**12**" and change data value to adjust the **blue** noise on the screen to the deepest blue.
4. Select item no. "**13**" and change data value to adjust the **red** noise on the screen to the deepest red.

23 RGB Gain adjustment

1. Receive the 16-step gray scale RGB 480p signal with **Input 2 [RGB]** mode.
2. Enter the service mode.
3. Connect an oscilloscope to test point "**TP531**" (+) and chassis ground (-).
4. Select group no. "**4**", item no. "**0**" and change data value to adjust waveform "**a**" to be minimum amplitude.
5. Connect an oscilloscope to test point "**TP561**" (+) and chassis ground (-).
6. Select item no. "**1**" and change data value to adjust waveform "**a**" to be minimum amplitude.
7. Connect an oscilloscope to test point "**TP501**" (+) and chassis ground (-).
8. Select item no. "**2**" and change data value to adjust waveform "**a**" to be minimum amplitude.



24 Common Center adjustment

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode.
3. Project only green light component to the screen.
4. Select group no. "**4**", item no. "**15**" and change data value to obtain the minimum flicker on the screen.
5. Project only blue light component to the screen.
6. Select item no. "**16**" and change data value to obtain the minimum flicker on the screen.
7. Project only red light component to the screen.
8. Select item no. "**17**" and change data value to obtain the minimum flicker on the screen.

25 White Balance adjustment

[PC WHITE BALANCE ADJUSTMENT]

1. Receive the 16-step gray scale computer signal with **Input 1 [RGB(Analog)]** mode.
2. Enter the service mode, select group no. "**4**", item no. "**13**" (Red) or "**14**" (Blue), and change data values respectively to make a proper white balance.

[AV WHITE BALANCE ADJUSTMENT]

3. Receive the 16-step gray scale video signal with **Input 3 [Video]** mode.
4. Enter the service mode, select group no. "**4**", item no. "**13**" (Red) or "**14**" (Blue), and change data values respectively to make a proper white balance.

Confirm that the same white balance is obtained in video and computer input.

NOTE ON WHITE UNIFORMITY ADJUSTMENT

If you find the color shading on the screen, please adjust the white uniformity by using the proper computer and "Color Shading Correction" software supplied separately. The software can be ordered as follows;

COLOR SHADING CORRECTION SOFTWARE
Service Parts No. 645 056 6288

● Service Adjustment Data Table

These initial values are the reference data written from the CPU ROM to memory IC when replaced new memory IC. The adjustment items indicated with "⁎" are required to readjust following to the "Electrical adjustments". Other items should be used with the initial data value.

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group: 0 TA1370				
0	SEP_LEV	3 / 3 / 3	0 ~ 3	YCbCr-1080i,1035i,720p / RGB-1080i,1035i,720p / others
1	YCLP_PHS	0 / 1 / 1	0 or 1	YCbCr-1080i,1035i,720p / RGB-1080i,1035i,720p / others
2	HD_PHASE	37 / 40 / 36 / 37 / 40 /	0 ~ 63	YCbCr-1080i,1035i / 720p / 1080i_50 / RGB-1080i / RGB-720p /
		36 / 37 / 37 / 32		RGB-1080i_50 / 575p / 480p / others
3	V_FREQ	-	-	Read only
4	H_FREQ	-	-	
5	HD_IN	-	-	
Group: 1 uPD64083				
0	NRMD	0	0 ~ 3	
1	HDP	4	0 ~ 7	
2	CDL	4	0 ~ 7	
3	DYCOR	4	0 ~ 15	DY detect coring level (Y movement detect coring)
4	DYGAIN	15	0 ~ 15	DY detect gain (Y movement detect gain)
5	DCCOR	2	0 ~ 15	DC detect coring level (C movement detect coring)
6	DCGAIN	13	0 ~ 15	DC detect gain (C movement detect gain)
7	VAPGAIN	3	0 ~ 15	
8	VAPINV	2	0 ~ 15	
9	YPFT	3	0 ~ 3	
10	YPFG	12	0 ~ 15	
11	V1PSEL	3	0 ~ 3	
12	VEGSEL	3	0 ~ 3	
13	CC3N	0	0 or 1	
14	SELD2FH	1	0 or 1	
15	SELD1FL	1	0 or 1	
16	YHCOR	0	0 ~ 3	
17	HPLLFG	1	0 or 1	
18	PLLFS	1	0 or 1	
19	KILR	3	0 ~ 15	
20	HSSL	12	0 ~ 15	
21	VSSL	3	0 ~ 15	
22	BGPS	7	0 ~ 15	
23	BGPW	3	0 ~ 15	
Group: 2 TB1274AF				
0	TINT	32	0 ~ 63	
1	SHP_EQ	2	0 ~ 3	
2	SHP_FO	2	0 ~ 3	
3	SHP_GAIN	11 / 11 / 8 / 6 6 / 9 / 8 / 8	0 ~ 15	Video NT / PAL,PALM,PALN / SECAM,BW60,BW50 / NT443 / PAL60 / S-Video / YCbCr / Scart
4	Y_OUT_LEVEL 0.7V	33 / 31 / 32 / 32 / 35 / 31 / 31 / 32 / 32 32 / 35 / 38	0 ~ 63	Video NT / NT443 / PAL,PALM,PALN / PAL60 / SECAM,BW / S-Video NT,BW / NT443 / PAL,PALM,PALN / PAL60 SECAM / YCbCr / Scart
5	C_OUT_LEVEL 0.6V	25 / 24 / 31 / 25 / 41 / 26 / 26 / 32 / 25 / 42 / 35 / 35 / 35	0 ~ 63	Video NT / NT443 / PAL,PALM,PALN / PAL60 / SECAM,BW / S-Video NT,BW / NT443 / PAL,PALM,PALN / PAL60 SECAM / 480i / 575i / Scart
6	Y_DELAY	5 / 5 / 4 / 4 / 4 / 4 / 4 / 3 / 3 / 4	0 ~ 15	Video NT,BW60 / PAL,PALM,PALN,BW50 / SECAM / NT443 / PAL60 S-Video NT,BW60 / PAL,PALM,PALN,BW50 / SECAM / NT443 / PAL60
7	COL_SYS	-	-	Read Only
8	X'TAL	-	-	
9	NOISE_DET	-	-	
10	V_FREQ	-	-	
11	Vert. Std	-	-	
12	CID	-	-	
13	V_SIG	-	-	
14	MVM	0	0 or 1	
15	AFC_GAIN	1	0 ~ 3	
16	SECAM_GP, SECAM_ID	7	0 ~ 15	
17	LPF	1 / 1	0 or 1	Not-Scart / Scart
Group: 3 CXA2151				
0	MATOUT	0 / 0 / 0 / 2 / 1	0 ~ 3	RGB / YCbCr 480i&575i / YCbCr 480p&575p / YCbCr 1080i&720p / YCbCr 1035i
1	V_TC	0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	0 ~ 3	RGB-480i,575i / 480p,575p / 720p,1080i / 1035i YCbCr-480i,575i / 480p,575p / 720p,1080i / 1035i
2	HSEP_SEL	0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	0 or 1	RGB-480i,575i / 480p,575p / 720p,1080i / 1035i YCbCr-480i,575i / 480p,575p / 720p,1080i / 1035i
3	HD_TC	0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	0 or 1	RGB-480i,575i / 480p,575p / 720p,1080i / 1035i YCbCr-480i,575i / 480p,575p / 720p,1080i / 1035i

No.	Adjustment Item	Initial Value	Range	Input source / Description	
4	HS_MASK	0 / 0 / 0 / 0 / 0 / 0 / 0 / 0	0 or 1	RGB-480i,575i / 480p,575p / 720p,1080i / 1035i YCbCr-480i,575i / 480p,575p / 720p,1080i / 1035i	
5	MACRO	1 / 1 / 0 / 1 / 1 / 0	0 or 1	RGB-480i,575i / 480p,575p / 720p,1035i,1080i YCbCr-480i,575i / 480p,575p / 720p,1035i,1080i	
6	CB_GAIN	6 / 6 / 6 / 6 / 6	0 ~ 15	RGB / YCbCr-480i,575i / YCbCr-480p,575p / YCbCr-1080i,720p / YCbCr-1035i	
7	CR_GAIN	6 / 6 / 6 / 6 / 6	0 ~ 15	RGB / YCbCr-480i,575i / YCbCr-480p,575p / YCbCr-1080i,720p / YCbCr-1035i	
8	Y_GAIN	6 / 6 / 6 / 6 / 6	0 ~ 15	RGB / YCbCr-480i,575i / YCbCr-480p,575p / YCbCr-1080i,720p / YCbCr-1035i	
9	GAIN_SEL	1 / 1	0 ~ 3	without RGB Video / RGB Video	
Group: 4 PANEL (CXD3531R, CXA7004R)					
0	G_SUB_GAIN	67 / 67 / 62 / 67	0 ~ 255	PC / AV / DVI / HD White 100% Adjustment	✻ Gain adjustment [G]
1	B_SUB_GAIN	67 / 67 / 62 / 67	0 ~ 255		✻ Gain adjustment [B]
2	R_SUB_GAIN	67 / 67 / 62 / 67	0 ~ 255		✻ Gain adjustment [R]
3	G_SUB_BRT	0 / 0	-4096 ~ 4095	PC / DVI,AV	
4	B_SUB_BRT	0 / 0	-4096 ~ 4095		
5	R_SUB_BRT	0 / 0	-4096 ~ 4095		
6	G_SIG_CNTR	33	0 ~ 255	Panel Center Adjustment	✻ Signal center adjustment [G]
7	B_SIG_CNTR	33	0 ~ 255		✻ Signal center adjustment [B]
8	R_SIG_CNTR	33	0 ~ 255		✻ Signal center adjustment [R]
9	G_GAIN_CTRL	160	0 ~ 255		✻ Gamma gain adjustment [G]
10	B_GAIN_CTRL	160	0 ~ 255		✻ Gamma gain adjustment [B]
11	R_GAIN_CTRL	160	0 ~ 255		✻ Gamma gain adjustment [R]
12	G_BRT_CTRL	100 / 90	0 ~ 255	PC(A,D) / AV,RGB-VIDEO	✻ Black level adjustment [G]
13	R_BRT_CTRL	100 / 90	0 ~ 255	PC(A,D) / AV,RGB-VIDEO	✻ White balance adjustment [R]
14	B_BRT_CTRL	100 / 90	0 ~ 255	PC(A,D) / AV,RGB-VIDEO	✻ White balance adjustment [B]
15	G_VCOM_CTRL	100	0 ~ 255		✻ Common center adjustment [G]
16	B_VCOM_CTRL	100	0 ~ 255		✻ Common center adjustment [B]
17	R_VCOM_CTRL	100	0 ~ 255		✻ Common center adjustment [R]
18	G_PSIGA	21	0 ~ 255		✻ Psig adjustment [G]
19	B_PSIGA	21	0 ~ 255		
20	R_PSIGA	21	0 ~ 255		✻ Psig adjustment [R,B]
21	G_PSIGB	212	0 ~ 255		✻ Psig adjustment [G]
22	B_PSIGB	212	0 ~ 255		
23	R_PSIGB	212	0 ~ 255		✻ Psig adjustment [R,B]
24	Cinema G_BRT_CTRL	0 / 0	-128 ~ 127	PC(A,D) / AV,RGB-VIDEO	
25	Cinema R_BRT_CTRL	0 / 0	-128 ~ 127	PC(A,D) / AV,RGB-VIDEO	
26	Cinema B_BRT_CTRL	0 / 0	-128 ~ 127		
27	SHP	23	0 ~ 63		
28	GC_ON	0	0 ~ 1		
29	G_GC_ATT	0	0 ~ 255		
30	B_GC_ATT	0	0 ~ 255		
31	R_GC_ATT	0	0 ~ 255		
Group: 5 DAC					
0	G_VIDEO_CENTER	120	0 ~ 255	dac1	
1	B_VIDEO_CENTER	120	0 ~ 255	dac1	
2	R_VIDEO_CENTER	120	0 ~ 255	dac1	
3	REF_G	60	0 ~ 255	dac1	
4	REF_B	60	0 ~ 255	dac1	
5	REF_R	60	0 ~ 255	dac1	
6	NRSB	160	0 ~ 255		
7	NRSA	40	0 ~ 255		
8	G_V_COM	55	0 ~ 255	dac2	
9	B_V_COM	55	0 ~ 255	dac2	
10	R_V_COM	55	0 ~ 255	dac2	
11	G_CLMP	125 / 208 / 208 / 208	0 ~ 255	PC(not RGB Video) / RGB Video / Video / Component	✻ Y/G pedestal adjustment
12	B_CLMP	181 / 158 / 224 / 224	0 ~ 255	PC(not RGB Video) / RGB Video / Video / Component	✻ Cb/B pedestal adjustment
13	R_CLMP	184 / 158 / 224 / 224	0 ~ 255	PC(not RGB Video) / RGB Video / Video / Component	✻ Cr/R pedestal adjustment
14	SGAIN +	-	0 ~ 255		
15	SGAIN -	128	0 ~ 255		
16	LF_LEV	255 / 255 / 255 / 0 / 0	0 ~ 255	SCART / RGB-480i,575i / YCbCr-480i,575i / VIDEO,S-VIDEO / Others	
17	DAC_VRB	34	0 ~ 255		✻ A/D reference voltage bottom adjustment
18	DAC_GY	112 / 112 / 112	0 ~ 255	Composite / Component / RGB Video	✻ A/D reference voltage top adjustment
19	DAC_BCB	113 / 113 / 113	0 ~ 255	Composite / Component / RGB Video	
20	DAC_RCR	113 / 113 / 113	0 ~ 255	Composite / Component / RGB Video	
Group: 6 TC90A69F					
0	Y-EQ_GAIN	3	0 ~ 3		
1	Y-EQ_N_C_LIM	3	0 ~ 3		
2	V-ENH_GAIN	4	0 ~ 7		
3	V_ENH_CORING	2	0 ~ 3		
4	NTSC443_SW	1	0 ~ 1	0 : NTSC4.43 1 : PAL60 (Available for NTSC4.43)	
Group: 10 Option					
0	Lamp Time Monitor	-	0 ~ 8738	Read only	
1	RS232C Baudrate	0	0 ~ 1	0: 19200bps 1: 9600bps	

No.	Adjustment Item	Initial Value	Range	Input source / Description
2	Shootout Mode	0	0 ~ 1	0: Disable 1: Enable
3	Cooling Time	3	0 ~ 15	Set cooling period, 1: 30 sec. 3: 90 sec. 15: 450 sec. 0: continuos
4	Hi-Land SW	0	0 ~ 1	0: Normal 1: Highland mode (Fan spin speed max.)
5	V-Douki SW	0	0 ~ 1	0: Synchronized Vertical 1: non-synchronized Vertical
6	Lamp Total Time	-	0 ~ 65535	Read only
7	Net Board RESET	1	0 ~ 1	0: Disable 1: Enable
8	Keystone Option	0	0 ~ 1	0: Maximum correction (fix) 1: Changeable for Input signal
9	Syukka SW	0	0 ~ 10	Set 10 to Shipping Condition
10	Color Shading SW	1	0 ~ 1	0: OFF 1: ON
11	RC Enable/Disable	0	0 ~ 3	0: Both enable 1: Front Disable 2: Rear Disable 3: Both Disable
12	Lamp Dim Level	15	0 ~ 15	0: the darkest 1: the brightest
13	Lamp Warning Time	1500	0 ~ 65535	Unit = hour
14	Forced NOBRAND	0	0 ~ 1	0: Normal 1: No brand
15	Forced Video Mute Off	0	0 ~ 1	0: Video Mute ON 1: Video Mute OFF
16	ANZEN FAN Control Fix SW	0	0 ~ 4	0: Normal 1: Normal min. 2: Normal max 3: Eco min. 4: Eco max
17	DJTR_SW	-	-	Not used
18	HDCP Option	0	0 ~ 3	0: XGA 1: Not XGA
19	HDCP Reset	0	0 ~ 10	Set 10 and write EDID Data for HDCP
Group: 11 FAN (Fan Control)				
0	FAN_TEMP_A_WARNING	460	30 ~ 1000	Temperature to judge abnormal A (Not memorized) Inside projector
1	FAN_TEMP_B_WARNING	800	30 ~ 1000	Temperature to judge abnormal A (Not memorized) Lamp
2	FAN_TEMP_C_WARNING	510	30 ~ 1000	Temperature to judge abnormal A (Not memorized) LCD Panel
3	FAN_TEMP_B-A_WARNING	520	0 ~ 1000	
4	FAN_TEMP_C-A_WARNING	200	0 ~ 1000	
5	FAN_CONTROL_SW	0	0 or 1	0: Auto-control all Fans 1: Manual control all Fans
6	FAN1 Manual Out	1350	0 ~ 2000	These are effective when FAN_CONTROL_SW is set to "1".
7	FAN2 Manual Out	1350	0 ~ 2000	
8	FAN4 Manual Out	1350	0 ~ 2000	
9	FAN5 Manual Out	1350	0 ~ 2000	
10	FAN6 Manual Out	1350	0 ~ 2000	
11	FAN7 Manual Out	1350	0 ~ 2000	
12	FAN1 Now Out	-		Read only Reading voltage of each Fan
13	FAN2 Now Out	-		
14	FAN4 Now Out	-		
15	FAN5 Now Out	-		
16	FAN6 Now Out	-		
17	FAN7 Now Out	-		
18	Temp Monitor A	-	-	Read only
19	Temp Monitor B	-	-	
20	Temp Monitor C	-	-	
21	Pressure Monitor	-	-	Read only
22	FAN_BALLAST_SW	0	0 or 1	Fan control depend on Ballast Output Voltage 0: OFF 1: ON
23	Service Target MODE	-1	-1 ~ 3	-1: Current Mode 0: Normal Mode 1: Eco Mode
24	Service Target FAN	0	0 ~ 5	Service taget 0: FAN1 1: FAN2 2: FAN4 3: FAN5 4: FAN6 5: FAN7 ∗ Fan adjustment [Setting]
25	Control Switch	0		Control Switch for the operated Fan 0: Auto 1: Manual
26	Temp Source Range High	400		Control range of Temperature for Temperature Sensor A
27	Temp Source Range Low	330		
28	Temp Fan-Out Range High	1350 / 1000		Control range of Fan control voltage by Temperature Sensor A
29	Temp Fan-Out Range Low	780 / 700 / 1000		
30	Diff (UP)Src Range High	180		Difference of temperature between temp-A and temp-C for Fan additional voltage (upward)
31	Diff (UP)Src Range Low	150		
32	Diff(DWN)Src Range High	80		Difference of temperature between temp-A and temp-C for Fan additional voltage (downward)
33	Diff(DWN)Src Range Low	60		
34	Press Source Range Low			Control range of Pressure Sensor
35	Press Source Range High			
36	Press FanAdd Range High	0		Control range of Fan additional voltage by Pressure sensor
37	Press FanAdd Range Low	500		
38	Ceil-Add			Fan additional voltage when ceiling
39	Fan Out Limit Volt MAX	1400		Limit voltage of current Fan output voltage
40	Fan Out Limit Volt MIN.	650		
41	Fan Out Limit DAC MAX		0 ~ 255	Limit of DAC output for current Fan ∗ Fan adjustment [max.]
42	Fan Out Limit DAC MIN.		0 ~ 255	∗ Fan adjustment [min.]
43	Manual Out		0 ~ 2000	Output voltage of current Fan at manual mode
44	Now Out	-		Reading voltage of current Fan
Group: 12 PC Real / AV Cinema				
0	PC Real Contrast	32	0 ~ 63	
1	PC Real Brightness	32	0 ~ 63	
2	PC Real Color	32	0 ~ 63	
3	PC Real Tint	32	0 ~ 63	
4	PC Real Red	32	0 ~ 63	
5	PC Real Green	30	0 ~ 63	
6	PC Real Blue	29	0 ~ 63	

No.	Adjustment Item	Initial Value	Range	Input source / Description
7	PC Real Sharpness	0	0 ~ 31	
8	PC Real Gamma	8	0 ~ 15	
9	PC Real N.R.	1	0 ~ 2	
10	PC Real PROGRESSIVE	1	0 or 1	
11	AV Cinema Contrast	32	0 ~ 63	
12	AV Cinema Brightness	32	0 ~ 63	
13	AV Cinema Color	32	0 ~ 63	
14	AV Cinema Tint	32	0 ~ 63	
15	AV Cinema Red	32	0 ~ 63	
16	AV Cinema Green	30	0 ~ 63	
17	AV Cinema Blue	29	0 ~ 63	
18	AV Cinema Sharpness	15	0 ~ 31	
19	AV Cinema Gamma	8	0 ~ 15	
20	AV Cinema N.R.	1	0 ~ 2	
21	AV Cinema PROGRESSIVE	1	0 or 1	
Group: 20 IP_Converter				
0	IMAGE_IN_FUNC_POL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	000-b4 (reg 0) NTSC / PAL / 480p / 575p / 1035i / 1080i / 1080i50 / 720p / 480i / 575i
1	IMAGE_IN_HD_SEL	1/1/1/1/1/ 1/1/1/1/1	0 or 1	000-b3
2	IMAGE_IN_HD_POL	1/1/1/1/1/ 1/1/1/1/1	0 or 1	000-b2
3	IMAGE_IN_VD_POL	1/1/1/1/1/ 1/1/1/1/1	0 or 1	000-b1
4	IMAGE_IN_LPF_SEL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	000-b0
5	IMAGE_OUT_CLK_POL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	001-b5
6	IMAGE_OUT_HD_POL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	001-b4
7	IMAGE_OUT_VD_POL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	001-b3
8	IMAGE_OUT_CS_SEL	0/0/0/0/0/ 0/0/0/0/0	0 or 1	001-b2
9	IMAGE_OUT_DEMUX	1/1/1/1/1/ 1/1/1/1/1	0 or 1	001-b1
10	IMAGE_OUT_THROUGH	0/0/1/1/0/ 0/0/1/0/0	0 or 1	001-b0
11	IMAGE_IN_TOTAL_H	Same as G510 - G517	0 ~ 2047	002 / 003 Same as G510 - G517 Read only
12	IMAGE_IN_START_H	190/ 200/ 171/ 196/ 124/ 124/ 113/ 219/ 190/ 205	0 ~ 2047	004 / 005
13	IMAGE_IN_SIZE_H	9/10/9/9/8/ 8/10/10/9/10	0 ~ 15	006 Read only
14	IMAGE_IN_START_V,	10 / 15 / 32 / 26 / 13/ 10 / 10 / 20 / 10 / 16	0 ~ 1023	007 / 008
15	IMAGE_IN_SIZE_V,	250 / 295 / 490 / 545 / 545 / 545 / 545/ 725 / 250 / 296	0 ~ 1023	009 / 010
16	CLAMP_H,	100 / 130 / 100 / 110 / 45 / 45 / 88 / 115 / 130 / 100 / 110 / 45 / 45 / 88 / 115 / 130	0 ~ 2047	011 / 012 NTSC / PAL / Comp480p / Comp575p / Comp1035i / Comp1080i,1080i50 / Comp720p / Comp480i / Comp575i / RGB480p / RGB575p / RGB1035i / RGB1080i,1080i50 / RGB720p / RGB480i / RGB575i
17	CLAMP_L,	140 / 160 / 130 / 145 / 70 / 70 / 142 / 145 / 160 / 130 / 145 / 70 / 70 / 142 / 145 / 160	0 ~ 2047	013 / 014
18	IMAGE_OUT_DELAY_H,	-	0 ~ 2047 Read only	015 / 016 (reg 2) NTSC / PAL / 480p / 575p / 1035i / 1080i,1080i50 / 720p / 480i / 575i
19	SYNC_OUT_DELAY_H,	-	0 ~ 2047 Read only	017 / 018
20	SYNC_OUT_DELAY_V,	-	0 ~ 2047 Read only	019 / 020
21	IMAGE_OUT_START_H,	0	Set 0	021 / 022
22	IMAGE_OUT_END_H,	2047	Set 2047	023 / 024
23	IMAGE_OUT_START_V,	0/ 0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 2047	025 / 026 + F440
24	IMAGE_OUT_END_V,	517 / 618 / 1038 / 1250 / 1119 / 1119 / 1490 / 517 / 618	0 ~ 2047	027 / 028
25	G_Y_IN_OS,	0 / 0	0 ~ 255	029 (reg 3) Not_RGB / RGB
26	B_CB_IN_OS,	128 / 0	0 ~ 255	030
27	R_CR_IN_OS,	128 / 0	0 ~ 255	031
28	G2Y,	256 / 150	0 ~ 1023	032 / 033 (reg 4) Not_RGB / RGB
29	B2Y,	0 / 29	0 ~ 1023	034 / 035
30	R2Y,	0 / 77	0 ~ 1023	036 / 037
31	G2CB,	0 / 939	0 ~ 1023	038 / 039
32	B2CB,	256 / 128	0 ~ 1023	040 / 041
33	R2CB,	0 / 983	0 ~ 1023	042 / 043
34	G2CR,	0 / 917	0 ~ 1023	044 / 045
35	B2CR,	0 / 1003	0 ~ 1023	046 / 047
36	R2CR,	256 / 128	0 ~ 1023	048 / 049
37	HUE_M,	37 / 35	0 ~ 255	050
38	GAIN_M,	0 / 0	0 ~ 127	051

No.	Adjustment Item	Initial Value	Range	Input source / Description
39	DG_M_R,	0 / 0	0 ~ 63	052 (reg 4) Not_RGB / RGB
40	HUE_R,	77 / 73	0 ~ 255	053
41	GAIN_R,	0 / 0	0 ~ 127	054
42	DG_R_Y,	0 / 0	0 ~ 63	055
43	HUE_Y,	121 / 124	0 ~ 255	056
44	GAIN_Y,	0 / 0	0 ~ 127	057
45	DG_Y_G,	0 / 0	0 ~ 63	058
46	HUE_G,	165 / 163	0 ~ 255	059
47	GAIN_G,	0 / 0	0 ~ 127	060
48	DG_G_C,	0 / 0	0 ~ 63	061
49	HUE_C,	205 / 201	0 ~ 255	062
50	GAIN_C,	0 / 0	0 ~ 127	063
51	DG_C_B,	0 / 0	0 ~ 63	064
52	HUE_B,	249 / 252	0 ~ 255	065
53	GAIN_B,	0 / 0	0 ~ 127	066
54	DG_B_M,	0 / 0	0 ~ 63	067
55	DNR_Y_NOISE_TH,	8 / 8	0 ~ 255	068 (reg 5) DNR-OFF / DNR-ON
56	DNR_Y_SENSE,	0 / 6	0 ~ 15	069
57	DNR_Y_MOTION_TH,	0 / 0	0 ~ 255	070
58	DNR_Y_MOTION_SLOPE,	4 / 4	0 ~ 7	071
59	DNR_Y_MOTION_F2_F0,	0 / 0	0 ~ 3	072
60	DNR_Y_MOTION_F4_F2,	3 / 3	0 ~ 3	073
61	DNR_C_NOISE_TH,	8 / 8	0 ~ 255	074
62	DNR_C_SENSE,	0 / 8	0 ~ 255	075
63	DNR_C_MOTION_TH,	0 / 0	0 ~ 255	076
64	DNR_C_MOTION_SLOPE,	4 / 4	0 ~ 7	077
65	DNR_C_MOTION_F2_F0,	0 / 0	0 ~ 3	078
66	DNR_C_MOTION_F4_F2,	3 / 3	0 ~ 3	079
67	IP_DEBUG,	0 / 0 / 0	0 ~ 7	080 (reg 6) IP-ON=NTSC,PAL,1035i,1080i,1080i50 /
68	IP_CTL_Y,	0 / 1 / 1	0 or 1	081-1 IP-ON&OFF=720p,480p,575p /
69	IP_CTL_C,	1 / 1 / 1	0 or 1	081-0 IP-OFF=NTSC,PAL,1035i,1080i,1080i50
70	IP_DIR,	10 / 0 / 0	0 ~ 15	082 (reg 7) IP-ON=NTSC,PAL /
71	IP_VAR_GAI,	8 / 0 / 0	0 ~ 15	083 IP-ON=1035i,1080i,1080i50 / IP-ON&OFF=720p,480p,575p /
72	IP_BPF_CORR,	4 / 0 / 0	0 ~ 255	084 IP-OFF=NTSC,PAL,1035i,1080i,1080i50
73	IP_BPF_GAIN,	32 / 0 / 0	0 ~ 63	085
74	IP_REL_H_GAIN,	63 / 0 / 0	0 ~ 63	086
75	IP_REL_V_GAIN,	63 / 0 / 0	0 ~ 63	087
76	MOTION_LPF_SEL,	7/ 7/ 7/ 7/ 7/ 7/ 7/ 7	0 ~ 7	088 (reg 8) DNR-ON=NTSC,PAL / DNR-OFF=NTSC,PAL / 1035i,1080i,1080i50 / 720p,480p,575p /
77	MOTION_TH_MIN.,	8/ 8/ 8/ 8/ 22/ 22/ 22/ 22	0 ~ 255	089 L2&&DNR-ON =NT,PAL/L2&&DNR-OFF=NT,PAL/L2=1035i,1080i,1080i50/L2=720p,480p,575p
78	MOTION_TH_MAX,	16 / 16 / 16 / 16 /	0 ~ 255	090
		38 / 38 / 38 / 38		
79	MOTION_TH_DL,	8/ 12/ 8/ 8/ 8/ 12/ 8/ 8	0 ~ 255	091
80	MOTION_WEIGHT_0,	9/ 9/ 9/ 9/ 9/ 9/ 9/ 9	0 ~ 15	092
81	MOTION_WEIGHT_1,	8/ 8/ 8/ 8/ 8/ 8/ 8/ 8	0 ~ 15	093
82	MOTION_WEIGHT_2,	7/ 7/ 7/ 7/ 7/ 7/ 7/ 7	0 ~ 15	094
83	MOTION_WEIGHT_3,	6/ 6/ 6/ 6/ 6/ 6/ 6/ 6	0 ~ 15	095
84	MOTION_WEIGHT_4,	5/ 5/ 5/ 5/ 5/ 5/ 5/ 5	0 ~ 15	096
85	MOTION_WEIGHT_5,	4/ 4/ 4/ 4/ 4/ 4/ 4/ 4	0 ~ 15	097
86	MOTION_WEIGHT_6,	3/ 3/ 3/ 3/ 3/ 3/ 3/ 3	0 ~ 15	098
87	MOTION_WEIGHT_7,	2/ 2/ 2/ 2/ 2/ 2/ 2/ 2	0 ~ 15	099
88	MOTION_WEIGHT_8,	1/ 1/ 1/ 1/ 1/ 1/ 1/ 1	0 ~ 15	100
89	MOTION_SUM_0,	20/ 20/ 0/ 0/ 20/ 20/ 0/ 0	0 ~ 1023	101
90	MOTION_SUM_1,	32/ 32/ 9/ 9/ 32/ 32/ 9/ 9	0 ~ 1023	103
91	MOTION_SUM_2,	86/ 86/ 0/ 0/ 86/ 86/ 0/ 0	0 ~ 1023	105
92	MOTION_SUM_3,	110 / 110 / 63 / 63 /	0 ~ 1023	107
		110 / 110 / 63 / 63		
93	PEAK_V_LPF_SEL,	1	0 or 1	109 (reg 9) fix
94	PEAK_V_CORR,	0	0 ~ 255	110
95	PEAK_V_GAIN,	-	0 ~ 63	111 Read only
96	PEAK_V_GAIN_TH,	0	0 ~ 255	112
97	PEAK_V_GAIN_SLOPE,	0	0 ~ 7	113
98	PEAK_V_MAX,	255	0 ~ 255	114
99	TI_Y_TH_MIN.,	1	0 ~ 255	115
100	TI_Y_TH_MAX,	255	0 ~ 255	116
101	TI_Y_CORR,	1	0 ~ 255	117
102	TI_Y_GAIN,	1	0 ~ 63	118
103	TI_Y_GAIN_TH,	0	0 ~ 255	119
104	TI_Y_GAIN_SLOPE,	0	0 ~ 7	120
105	TI_Y_GAIN_SEL,	1	0 ~ 7	121
106	TI_C_TH_MIN.,	0	0 ~ 255	122
107	TI_C_TH_MAX,	0	0 ~ 255	123
108	TI_C_CORR,	0	0 ~ 255	124

No.	Adjustment Item	Initial Value	Range	Input source / Description
109	TI_C_GAIN,	0	0 ~ 63	125 (reg 9) fix
110	TI_C_GAIN_TH,	0	0 ~ 7	126
111	TI_C_GAIN_SLOPE,	0	0 ~ 7	127
112	TI_C_GAIN_SEL,	0	0 ~ 7	128
113	PEAK_H_BPF_SEL,	0 / 1	0 ~ 3	129 (reg A) NTSC,PAL,480p,575p / 720p,1035i,1080i,1080i50
114	PEAK_H_CORR,	3 / 0	0 ~ 255	130
115	PEAK_H_GAIN,	- / -	0 ~ 63	131
116	PEAK_H_GAIN_TH,	0 / 0	0 ~ 255	132
117	PEAK_H_GAIN_SLOPE,	2 / 2	0 ~ 7	133
118	PEAK_H_GAIN_SEL,	1 / 1	0 ~ 3	134
119	PEAK_H_MAX,	255 / 255	0 ~ 255	135
120	Y2G,	- / -	0 ~ 1023	136 / 137 (reg B) NTSC,PAL,480p,575p / 1035i,1080i,1080i50,720p
121	CB2G,	- / -	0 ~ 1023	138 / 139
122	CR2G,	- / -	0 ~ 1023	140 / 141
123	Y2B,	- / -	0 ~ 1023	142 / 143
124	CB2B,	- / -	0 ~ 1023	144 / 145
125	CR2B,	- / -	0 ~ 1023	146 / 147
126	Y2R,	- / -	0 ~ 1023	148 / 149
127	CB2R,	- / -	0 ~ 1023	150 / 151
128	CR2R,	- / -	0 ~ 1023	152 / 153
129	G_Y_OUT_OS,	0	0 ~ 255	154 (reg C) fix
130	G_Y_OUT_MIN.,	0	0 ~ 255	155
131	G_Y_OUT_DC,	0	0 ~ 255	156
132	G_Y_OUT_MAX,	255	0 ~ 255	157
133	B_CB_OUT_OS,	0	0 ~ 255	158
134	B_CB_OUT_MIN.,	0	0 ~ 255	159
135	B_CB_OUT_DC,	0	0 ~ 255	160
136	B_CB_OUT_MAX,	255	0 ~ 255	161
137	R_CR_OUT_OS,	0	0 ~ 255	162
138	R_CR_OUT_MIN.,	0	0 ~ 255	163
139	R_CR_OUT_DC,	0	0 ~ 255	164
140	R_CR_OUT_MAX,	255	0 ~ 255	165
141	CINEMA_START_H,	0 / 0 / 0	0 ~ 255	166 (reg D) IP-ON=NTSC / IP-ON=NTà»äO / IP-OFF
142	CINEMA_SIZE_H,	160 / 0 / 0	0 ~ 255	167
143	CINEMA_START_V,	1 / 0 / 0	0 ~ 255	168
144	CINEMA_SIZE_V,	60 / 0 / 0	0 ~ 255	169
145	CINEMA_MOTION_TH,	16 / 0 / 0	0 ~ 255	170
146	CINEMA_DET_TH,	384 / 0 / 0	0 ~ 65535	171 / 172
147	CINEMA_DET_FIELD,	7 / 0 / 0	0 ~ 7	173
148	CINEMA_CTL_SWAP,	20 / 0 / 0	0 ~ 31	174
149	CINEMA_CTL_Y,	0 / 1 / 1	0 or 1	175-1
150	CINEMA_CTL_C,	1 / 1 / 1	0 or 1	175-0
151	EXT_CINEMA_DET,	0 / 0 / 0	0 or 1	176-2
152	EXT_CINEMA_MODE,	0 / 0 / 0	0 or 1	176-1
153	EXT_CINEMA_SWAP,	0 / 0 / 0	0 or 1	176-0
154	STINT	0 / 0 / 0	0 ~ 31	177 (reg E) without RGB = NTSC,PAL,480p,575p / without RGB = 720p,1035i,1080i,1080i50 / RGB
155	SCOL	140 / 140 / 180	0 ~ 255	178
156	CB2B_STD	454 / 454 / 454	0 ~ 1023	179 / 180
157	CR2B_STD	0 / 0 / 0	0 ~ 1023	181 / 182
158	CB2R_STD	0 / 0 / 0	0 ~ 1023	183 / 184
159	CR2R_STD	359 / 359 / 359	0 ~ 1023	185 / 186
160	CB2G_STD	1015 / 105 / 1015	0 ~ 1023	187 / 188
161	CR2G_STD	842 / 842 / 842	0 ~ 1023	189 / 190
162	S_SHP	8 / 10 / 0	0 ~ 63	191
Group: 21 IP (MB40C348)				
0	V_AMP	0	0 or 1	adr0-2
1	DSEL	1	0 or 1	adr0-1
2	CE	0	0 or 1	adr0-0
3	COUNTER_W	64	0 ~ 4095	adr1,adr2(3-0)
4	ADC_OUT	0	0 or 1	adr3-7
5	HSYNC_POL	1	0 or 1	adr3-6
6	CLK_DELAY	0	0 ~ 63	adr3(5-0)
7	DSYNC_DELAY	1	0 ~ 3	adr4(7-6)
8	ADCLK_B	1	0 or 1	adr4-5
9	ADCLK_A	1	0 or 1	adr4-4
10	DSYNC_B	1	0 or 1	adr4-3
11	DSYNC	1	0 or 1	adr4-2
12	CLK_B	1	0 or 1	adr4-1
13	CLK	1	0 or 1	adr4-0
14	DIVIDER	0	0 ~ 3	adr5(7-6)
15	VCO_CHG	0	0 or 1	adr5-5
16	CURRENT	0	0 or 3	adr5(4-3)

No.	Adjustment Item	Initial Value	Range	Input source / Description
17	counter	1	0 or 1	adr5-2
18	out_clk	0	0 or 1	adr5-1
19	clk_chb	1	0 or 1	adr5-0
Group: 22 ICS1523				
0	ICS_R0_EnDLS	0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 1	R0
1	ICS_R0_EnPLS	1/ 1/ 1/ 1/ 1/ 1/ 1	0 ~ 1	NTSC & 480i / PAL & SECAM & 525i / 1035i / 1080i60 / 1080i50 / 720p / 480p / 575p
2	ICS_R0_Func_Sel	0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 1	
3	ICS_R0_Fbk_Sel	0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 1	
4	ICS_R0_Fbk_Pol	0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 1	
5	ICS_R0_Ref_Pol	1/ 1/ 1/ 1/ 1/ 1/ 1	0 ~ 1	
6	ICS_R0_PD_Pol	1/ 1/ 1/ 1/ 1/ 1/ 1	0 ~ 1	
7	ICS_R0_Pden	0/ 0/ 0/ 0/ 0/ 0/ 0	0 ~ 1	
8	ICS_R1_PSD	2/ 2/ 0/ 0 0/ 0/ 0/ 0	0 ~ 3	R1 (Left Data : Progressive = ON , Right Data : Progressive = OFF)
9	ICS_R1_PFD	6/ 6/ 6/ 6 6/ 5/ 5/ 5	0 ~ 7	NTSC & 480i / PAL & SECAM & 525i / 1035i / 1080i60 /1080i50 / 720p / 480p / 575p
10	ICS_R3_FBD	2600/ 2654/ 2458/ 2458 2866/ 1343/ 1273/ 1276	0 ~ 8191	R3_R2 NTSC & 480i / PAL & SECAM & 525i / 1035i / 1080i60 / 1080i50 / 720p / 480p / 575p
11	ICS_R4_Fil_Sel	0	0 ~ 1	R4
12	ICS_R4_DPA_OS	0	0 ~ 63	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720p & 480p & 575p
13	ICS_R5_Mask_Rev	0	0 ~ 63	R5
14	ICS_R5_DPA_Res	0	0 ~ 3	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720p & 480p & 575p
15	ICS_R6_Out_Scl	0	0 ~ 3	R6
16	ICS_R6_Ck2_Inv	0	0 ~ 1	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720p & 480p & 575p
17	ICS_R6_OE_F	1	0 ~ 1	
18	ICS_R6_OE_T2	0	0 ~ 1	
19	ICS_R6_OE_P2	0	0 ~ 1	
20	ICS_R6_OE_Tck	0	0 ~ 1	
21	ICS_R6_OE_Pck	1	0 ~ 1	
22	ICS_R7_In_Sel	0	0 ~ 1	R7
23	ICS_R7_Osc_Div	0	0 ~ 127	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720p & 480p & 575p
24	ICS_R8_PLL	0	0 ~ 15	R8
25	ICS_R8_DPA	10	0 ~ 15	NTSC & 480i / PAL & SECAM & 525i / 1035i & 1080i60 & 1080i50 / 720p & 480p & 575p
Group: 30 SAM3				
0	SAM3_AREA_DISP_ON_ud	0	0 ~ 1	Aperture compensation Area Display 0: OFF 1: ON
1	SAM3_SA_ON_ud	0	0 ~ 1	Y signal converter switch 0: OFF 1: ON
2	SAM3_MONI_SEL_ON_ud	0	0 ~ 1	CPU data monitor switch 0: OFF 1: ON
3	SAM3_SHP_EN_SET_ud	194	0 ~ 4095	Set aperture compensation effective period
4	SAM3_SHP_EN_RST_ud	1538	0 ~ 4095	Reset aperture compensation effective period
5	SAM3_Area_ON_Pic_LEVEL	31	0 ~ 255	
6	SAM3_Area_ON_Pic_MON	0	0 ~ 1	
7	SAM3_ColoM_Point_MON	0	0 ~ 1	
8	SAM3_TURBO_OFF_GAIN	0	0 ~ 255	
9	SAM3_TURBO_ON_GAIN	25	0 ~ 255	
Group: 31 SAM3 Enhanser				
0	SAM3_ENH_PC_ON/OFF	0	0 ~ 1	Enhanser for PC 0: Disable 1: Enable
1	SAM3_ENH_AV_ON/OFF	0	0 ~ 1	Enhanser for AV 0: Disable 1: Enable
2	SAM3_ENH_Change_L_ud	17	0 ~ 100	Enhanser
3	SAM3_ENH_CORE_L_ud	63	0 ~ 127	
4	SAM3_ENH_DNR_Y_ud	64	0 ~ 1023	
5	SAM3_AB_ON_ud	3	0 ~ 3	
6	SAM3_EGE_ud	0	0 ~ 3	
7	SAM3_Enh_Hset_PC_X_ud	18	0 ~ 255	
8	SAM3_Enh_Hrst_PC_X_ud	138	0 ~ 255	
9	SAM3_Enh_Vset_PC_X_ud	0	0 ~ 255	
10	SAM3_Enh_Vrst_PC_X_ud	97	0 ~ 255	
11	SAM3_Enh_Hset_PC_F_ud	18	0 ~ 255	
12	SAM3_Enh_Hrst_PC_F_ud	138	0 ~ 255	
13	SAM3_Enh_Vset_PC_F_ud	12	0 ~ 255	
14	SAM3_Enh_Vrst_PC_F_ud	85	0 ~ 255	
15	SAM3_Enh_Hset_PC_V_ud	68	0 ~ 255	
16	SAM3_Enh_Hrst_PC_V_ud	115	0 ~ 255	
17	SAM3_Enh_Vset_PC_V_ud	18	0 ~ 255	
18	SAM3_Enh_Vrst_PC_V_ud	79	0 ~ 255	
19	SAM3_Enh_Hset_AV_F_ud	18	0 ~ 255	
20	SAM3_Enh_Hrst_AV_F_ud	138	0 ~ 255	
21	SAM3_Enh_Vset_AV_F_ud	12	0 ~ 255	
22	SAM3_Enh_Vrst_AV_F_ud	85	0 ~ 255	
23	SAM3_Enh_Hset_AV_Z_ud	-	0 ~ 255	
24	SAM3_Enh_Hrst_AV_Z_ud	-	0 ~ 255	
25	SAM3_Enh_Vset_AV_Z_ud	-	0 ~ 255	
26	SAM3_Enh_Vrst_AV_Z_ud	-	0 ~ 255	
27	SAM3_Enh_Hset_AV_N_ud	18	0 ~ 255	
28	SAM3_Enh_Hrst_AV_N_ud	138	0 ~ 255	

No.	Adjustment Item	Initial Value	Range	Input source / Description
29	SAM3_Enh_Vset_AV_N_ud	0	0 ~ 255	
30	SAM3_Enh_Vrst_AV_N_ud	97	0 ~ 255	
31	SAM3_Enh_PC_LEVEL0	0	0 ~ 31	
32	SAM3_Enh_PC_LEVEL1	21	0 ~ 31	
33	SAM3_Enh_PC_LEVEL2	21	0 ~ 31	
34	SAM3_Enh_PC_AREA_HS	0	0 ~ 3	
35	SAM3_Enh_PC_AREA_VS	3	0 ~ 7	
36	SAM3_Enh_PC_AREA_HE	3	0 ~ 3	
37	SAM3_Enh_PC_AREA_VE	5	0 ~ 7	
38	SAM3_Enh_PC_AREA1	50	0 ~ 655	
39	SAM3_Enh_PC_AREA2	50	0 ~ 655	
40	SAM3_Enh_AV_LEVEL0	23	0 ~ 31	
41	SAM3_Enh_AV_LEVEL1	23	0 ~ 31	
42	SAM3_Enh_AV_LEVEL2	22	0 ~ 31	
43	SAM3_Enh_AV_AREA_HS	1	0 ~ 3	
44	SAM3_Enh_AV_AREA_VS	0	0 ~ 7	
45	SAM3_Enh_AV_AREA_HE	2	0 ~ 3	
46	SAM3_Enh_AV_AREA_VE	7	0 ~ 7	
47	SAM3_Enh_AV_AREA1	0	0 ~ 655	
Group: 32 SAM3 Auto Picture				
0	SAM3_Cont_ON/OFF	1	0 ~ 2	Enable Flag 0 : Disable 1 : Enable(recovery) 2 : Enable(re-judgement)
1	SAM3_Cont_L1_MD1_L	3	0 ~ 31	
2	SAM3_Cont_L1_MD2_L	3	0 ~ 31	
3	SAM3_Cont_L1_MD3_L	3	0 ~ 31	
4	SAM3_Cont_L2_MD1_L	5	0 ~ 31	
5	SAM3_Cont_L2_MD2_L	5	0 ~ 31	
6	SAM3_Cont_L2_MD3_L	5	0 ~ 31	
7	SAM3_Cont_OFFSET	10	0 ~ 511	
8	SAM3_Cont_APL_LEVEL	400	0 ~ 511	
9	SAM3_Cont_APL_M_LEVEL	400	0 ~ 511	
10	SAM3_Cont_APL_SPEED	4	1 ~ 64	
11	SAM3_Cont_Chg_LEVEL1	15	0 ~ 127	
12	SAM3_Cont_Chg_LEVEL2	30	0 ~ 127	
13	SAM3_Cont_Hst_PC_X_ud	90	0 ~ 4095	
14	SAM3_Cont_Vst_PC_X_ud	2	0 ~ 4095	
15	SAM3_Cont_Hblk_PC_X_ud	31	0 ~ 63	
16	SAM3_Cont_Vblk_PC_X_ud	23	0 ~ 63	
17	SAM3_Cont_Hst_PC_F_ud	90	0 ~ 4095	
18	SAM3_Cont_Vst_PC_F_ud	97	0 ~ 4095	
19	SAM3_Cont_Hblk_PC_F_ud	31	0 ~ 63	
20	SAM3_Cont_Vblk_PC_F_ud	17	0 ~ 63	
21	SAM3_Cont_Hst_PC_V_ud	283	0 ~ 4095	
22	SAM3_Cont_Vst_PC_V_ud	146	0 ~ 4095	
23	SAM3_Cont_Hblk_PC_V_ud	19	0 ~ 63	
24	SAM3_Cont_Vblk_PC_V_ud	14	0 ~ 63	
25	SAM3_Cont_Hst_AV_F_ud	90	0 ~ 4095	
26	SAM3_Cont_Vst_AV_F_ud	98	0 ~ 4095	
27	SAM3_Cont_Hblk_AV_F_ud	31	0 ~ 63	
28	SAM3_Cont_Vblk_AV_F_ud	17	0 ~ 63	
29	SAM3_Cont_Vst_AV/F/V_ud	178	0 ~ 4095	
30	SAM3_Cont_Vblk/AV/F/V_ud	12	0 ~ 63	
31	SAM3_Cont_Vst_AV/F/V_ud	210	0 ~ 4095	
32	SAM3_Cont_Vblk/AV/F/V_ud	10	0 ~ 63	
33	SAM3_Cont_Hst_AV_Z_ud	-	0 ~ 4095	
34	SAM3_Cont_Vst_AV_Z_ud	-	0 ~ 4095	
35	SAM3_Cont_Hblk_AV_Z_ud	-	0 ~ 63	
36	SAM3_Cont_Vblk_AV_Z_ud	-	0 ~ 63	
37	SAM3_Cont_Vst_AV/Z/C_ud	-	0 ~ 4095	
38	SAM3_Cont_Vblk/AV/Z/C_ud	-	0 ~ 63	
39	SAM3_Cont_Hst_AV_N_ud	90	0 ~ 4095	
40	SAM3_Cont_Vst_AV_N_ud	2	0 ~ 4095	
41	SAM3_Cont_Hblk_AV_N_ud	31	0 ~ 63	
42	SAM3_Cont_Vblk_AV_N_ud	23	0 ~ 63	
43	SAM3_Cont_Vst/AV/N/V_ud	98	0 ~ 4095	
44	SAM3_Cont_Vblk/AV/N/V_ud	17	0 ~ 63	
45	SAM3_Cont_Vst/AV/N/C_ud	162	0 ~ 4095	
46	SAM3_Cont_Vblk/AV/N/C_ud	13	0 ~ 63	
47	SAM3_Level-up_Mode_EQ	2	0 ~ 16	
Group: 33 SAM3 ColorM (Color Management)				
0	SAM3_COLM_Yrange_ud	8	0 ~ 32	
1	SAM3_COLM_UVphase_ud	6	0 ~ 32	
2	SAM3_COLM_UVcomp_ud	95	50 ~ 100	

No.	Adjustment Item	Initial Value	Range	Input source / Description
3	SAM3_ColM_MinSlope_ud	3	0 ~ 10	
4	SAM3_ColM_MaxSlope_ud	18	10 ~ 30	
5	SAM3_ColM_ConvPT_ud	3	1 ~ 5	
6	SAM3_ColM_BASE_X_ud	24	0 ~ 1024	
7	SAM3_ColM_BASE_Y_ud	1	0 ~ 1024	
8	SAM3_ColM_Get_Y_ud	9	1, 3, 5, 9	
9	SAM3_ColM_Nsh_Yrange	32	0 ~ 64	
10	SAM3_ColM_Fsh_UVnorm	3	0 ~ 10	
11	SAM3_ColM_Fsh_UVphase	100	0 ~ 900	
12	SAM3_ColM_Fcut_UVnorm	50	0 ~ 640	
13	SAM3_ColM_Ncut_MinY	0	0 ~ 127	
14	SAM3_ColM_Ncut_MaxY	255	128 ~ 255	
15	SAM3_ColM_Sci_Col_ud	0	0 ~ 4	
16	SAM3_ColM_View_Yinc_ud	76	0 ~ 128	
17	SAM3_ColM_View_Rinc_ud	4	0 ~ 8	
18	SAM3_ColM_View_Ginc_ud	4	0 ~ 8	
19	SAM3_ColM_View_Binc_ud	4	0 ~ 8	
20	SAM3_ColM_General_ud	98	0 ~ 255	
21	SAM3_ColM_PC_XS_N_ud	0	0 ~ 2048	Mouse cursor moving range at PC mode start X position (Screen Normal)
22	SAM3_ColM_PC_XE_N_ud	1024	0 ~ 2048	end X position
23	SAM3_ColM_PC_YS_N_ud	0	0 ~ 2048	start Y position
24	SAM3_ColM_PC_YE_N_ud	768	0 ~ 2048	end Y position
25	SAM3_ColM_PC_XS_N_ud	0	0 ~ 2048	Mouse cursor moving range at PC mode start X position (Screen Full)
26	SAM3_ColM_PC_XE_N_ud	1024	0 ~ 2048	end X position
27	SAM3_ColM_PC_YS_N_ud	0	0 ~ 2048	start Y position
28	SAM3_ColM_PC_YE_N_ud	768	0 ~ 2048	end Y position
29	SAM3_ColM_AV_XS_N_ud	0	0 ~ 2048	Mouse cursor moving range at AV mode start X position (Screen Normal)
30	SAM3_ColM_AV_XE_N_ud	1024	0 ~ 2048	end X position
31	SAM3_ColM_AV_YS_N_ud	0	0 ~ 2048	start Y position
32	SAM3_ColM_AV_YE_N_ud	768	0 ~ 2048	end Y position
33	SAM3_ColM_AV_XS_N_ud	0	0 ~ 2048	Mouse cursor moving range at AV mode start X position (Screen Full)
34	SAM3_ColM_AV_XE_N_ud	1024	0 ~ 2048	end X position
35	SAM3_ColM_AV_YS_N_ud	0	0 ~ 2048	start Y position
36	SAM3_ColM_AV_YE_N_ud	768	0 ~ 2048	end Y position
Group: 40 DIMMER				
0	DIMMER_AREA_HS	27	0 ~ 2047	
1	DIMMER_AREA_HR	1051	0 ~ 2047	
2	DIMMER_AREA_VS	4	0 ~ 2047	
3	DIMMER_AREA_VR	772	0 ~ 2047	
4	DIMMER_CTRL_LEVEL1	75	0 ~ 32767	
5	DIMMER_CTRL_LEVEL2	150	0 ~ 32767	
6	DIMMER_CTRL_LEVEL3	225	0 ~ 32767	
7	DIMMER_CTRL_LEVEL4	300	0 ~ 32767	
8	DIMMER_CTRL_LEVEL5	375	0 ~ 32767	
9	DIMMER_CTRL_LEVEL6	450	0 ~ 32767	
10	DIMMER_CTRL_LEVEL7	525	0 ~ 32767	
11	DIMMER_CTRL_LEVEL8	600	0 ~ 32767	
12	DIMMER_CTRL_LEVEL9	675	0 ~ 32767	
13	DIMMER_CTRL_LEVEL10	750	0 ~ 32767	
14	DIMMER_CTRL_LEVEL11	825	0 ~ 32767	
15	DIMMER_CTRL_LEVEL12	900	0 ~ 32767	
16	DIMMER_CTRL_LEVEL13	975	0 ~ 32767	
17	DIMMER_CTRL_LEVEL14	1050	0 ~ 32767	
18	DIMMER_CTRL_LEVEL15	1125	0 ~ 32767	
19	DIMMER_AVERAGE_POINT	4	1 ~ 16	
20	DIMMER_AVERAGE_DATA	-	0 ~	Read only
21	DIMMER_COLOR_DATA	-	0 ~	Read only
22	DIMMER_LEVEL	-	0 ~ 15	Read only
Group: 100 GAMMA				
0	Standard GAMMA 0	0 / 0	0 ~ 1023	PC,DVI standard / AV Standard
1	Standard GAMMA 1	220 / 220	0 ~ 1023	Read only
2	Standard GAMMA 2	340 / 300	0 ~ 1023	Bright OFF Standard
3	Standard GAMMA 3	440 / 408	0 ~ 1023	
4	Standard GAMMA 4	528 / 502	0 ~ 1023	
5	Standard GAMMA 5	587 / 559	0 ~ 1023	
6	Standard GAMMA 6	660 / 628	0 ~ 1023	
7	Standard GAMMA 7	705 / 682	0 ~ 1023	
8	Standard GAMMA 8	742 / 720	0 ~ 1023	
9	Standard GAMMA 9	770 / 751	0 ~ 1023	
10	Standard GAMMA 10	795 / 780	0 ~ 1023	
11	Standard GAMMA 11	820 / 810	0 ~ 1023	
12	Standard GAMMA 12	847 / 843	0 ~ 1023	

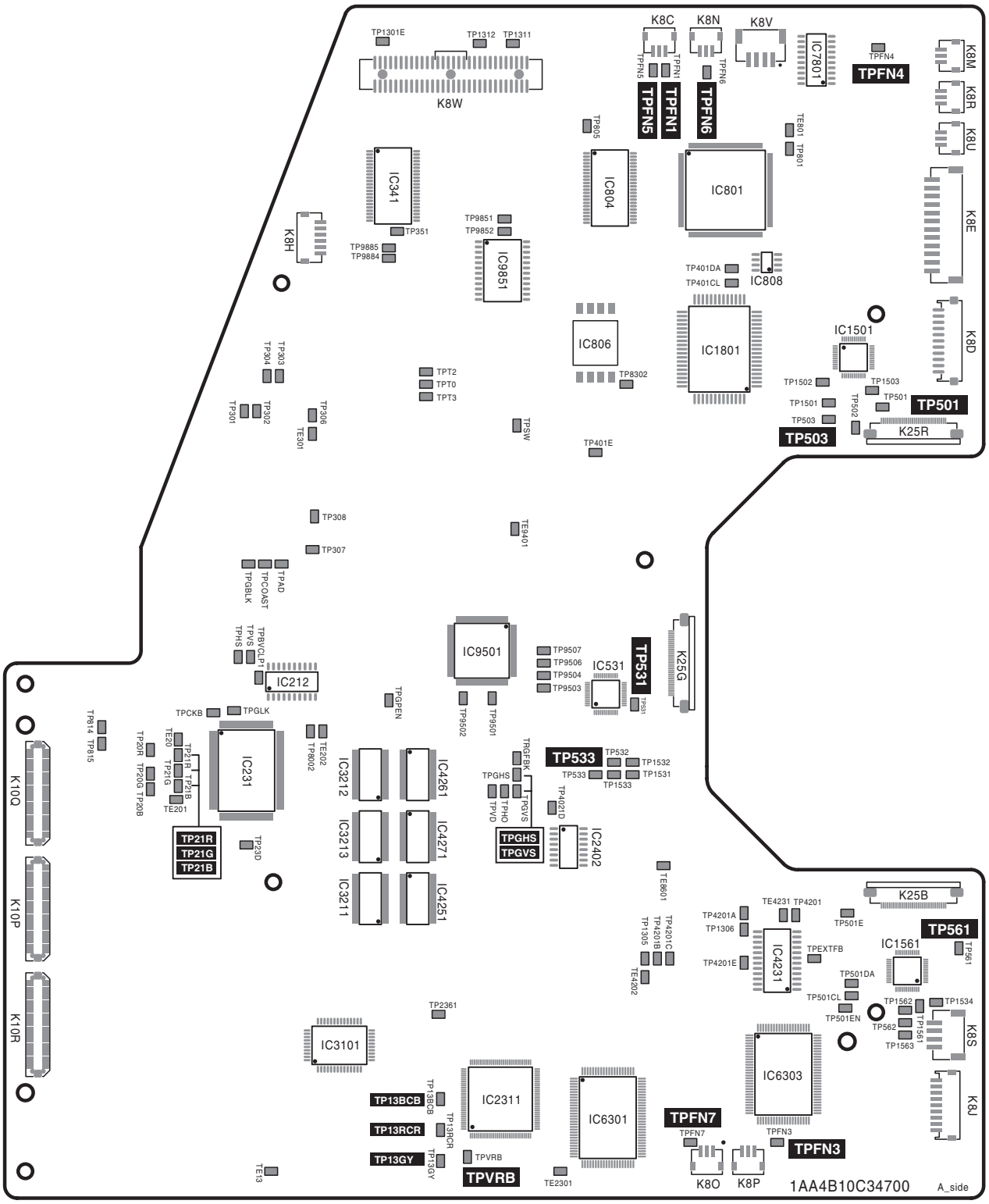
No.	Adjustment Item	Initial Value	Range	Input source / Description
13	Standard GAMMA 13	875 / 867	0 ~ 1023	PC,DVI standard / AV Standard
14	Standard GAMMA 14	920 / 900	0 ~ 1023	Read only
15	Standard GAMMA 15	1023 / 960	0 ~ 1023	Bright OFF Standard
16	Real/Cinema GAMMA 0	0 / 0	-512 ~ 511	
17	Real/Cinema GAMMA 1	10 / 15	-512 ~ 511	
18	Real/Cinema GAMMA 2	6 / 9	-512 ~ 511	
19	Real/Cinema GAMMA 3	3 / 7	-512 ~ 511	
20	Real/Cinema GAMMA 4	2 / 4	-512 ~ 511	
21	Real/Cinema GAMMA 5	0 / 0	-512 ~ 511	
22	Real/Cinema GAMMA 6	-2 / -2	-512 ~ 511	
23	Real/Cinema GAMMA 7	-4 / -4	-512 ~ 511	
24	Real/Cinema GAMMA 8	-7 / -7	-512 ~ 511	
25	Real/Cinema GAMMA 9	-9 / -9	-512 ~ 511	
26	Real/Cinema GAMMA 10	-11 / -11	-512 ~ 511	
27	Real/Cinema GAMMA 11	-13 / -13	-512 ~ 511	
28	Real/Cinema GAMMA 12	-16 / -16	-512 ~ 511	
29	Real/Cinema GAMMA 13	-20 / -20	-512 ~ 511	
30	Real/Cinema GAMMA 14	-24 / -24	-512 ~ 511	
31	Real/Cinema GAMMA 15	0 / 0	-512 ~ 511	
Group: 101 COLSHD (Color Shading Correction)				
0	Level R-MAX	748	0 ~ 1023	
1	Level R-MID1	628	0 ~ 1023	
2	Level R-MID2	548	0 ~ 1023	
3	Level G-MAX	748	0 ~ 1023	
4	Level G-MID1	628	0 ~ 1023	
5	Level G-MID2	548	0 ~ 1023	
6	Level B-MAX	748	0 ~ 1023	
7	Level B-MID1	628	0 ~ 1023	
8	Level B-MID2	548	0 ~ 1023	
Group: 500 ADC				
0	ADC G-OFFSET	55	0 ~ 255	* Pedestal adjustment [G]
1	ADC B-OFFSET	55	0 ~ 255	* Pedestal adjustment [B]
2	ADC R-OFFSET	55	0 ~ 255	* Pedestal adjustment [R]
3	ADC G-GAIN	61	0 ~ 255	
4	ADC B-GAIN	63	0 ~ 255	
5	ADC R-GAIN	65	0 ~ 255	
6	ADC BandWidth PC	3	0 ~ 3	
7	ADC BandWidth AV	3	0 ~ 3	
Group: 510 NTSC Gakaku				
0	NTSC TOTAL DOTS	1316	0 ~ 2048	
1	NTSC DISP DOTS	1024	0 ~ 2048	NT
2	NTSC H BACK PORCH	573	0 ~ 2048	
3	NTSC V BACK PORCH	41	0 ~ 2048	
4	NTSC DISP LINE	457	0 ~ 2048	
5	NTSC CLAMP	0	0 ~ 2048	
Group: 511 PAL Gakaku				
0	PAL TOTAL DOTS	1352	0 ~ 2048	
1	PAL DISP DOTS	1024	0 ~ 2048	PAL
2	PAL H BACK PORCH	665	0 ~ 2048	
3	PAL V BACK PORCH	57	0 ~ 2048	
4	PAL DISP LINE	535	0 ~ 2048	
5	PAL CLAMP	0	0 ~ 2048	
Group: 512 HDTV 1080i-60 Gakaku				
0	TOTAL DOTS	1206	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	1080i60
2	H BACK PORCH	391	0 ~ 2048	
3	V BACK PORCH	50	0 ~ 2048	
4	DISP LINE	1053	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 513 HDTV 1080i-50 Gakaku				
0	TOTAL DOTS	1444	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	1080i50
2	H BACK PORCH	386	0 ~ 2048	
3	V BACK PORCH	51	0 ~ 2048	
4	DISP LINE	1050	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 514 HDTV 1035i Gakaku				
0	TOTAL DOTS	1206	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	1035i
2	H BACK PORCH	391	0 ~ 2048	
3	V BACK PORCH	87	0 ~ 2048	
4	DISP LINE	1012	0 ~ 2048	

No.	Adjustment Item	Initial Value	Range	Input source / Description
5	CLAMP	7	0 ~ 2048	
Group: 515 HDTV 720p Gakaku				
0	TOTAL DOTS	1352	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	720p
2	H BACK PORCH	871	0 ~ 2048	
3	V BACK PORCH	54	0 ~ 2048	
4	DISP LINE	702	0 ~ 2048	
5	CLAMP	8	0 ~ 2048	
Group: 516 HDTV 575p Gakaku				
0	TOTAL DOTS	1320	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	575p
2	H BACK PORCH	858	0 ~ 2048	
3	V BACK PORCH	101	0 ~ 2048	
4	DISP LINE	547	0 ~ 2048	
5	CLAMP	8	0 ~ 2048	
Group: 517 HDTV 480p Gakaku				
0	TOTAL DOTS	1283	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	480p
2	H BACK PORCH	822	0 ~ 2048	
3	V BACK PORCH	82	0 ~ 2048	
4	DISP LINE	460	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 518 RGB NTSC Gakaku				
0	TOTAL DOTS	1314	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB NTSC
2	H BACK PORCH	555	0 ~ 2048	
3	V BACK PORCH	40	0 ~ 2048	
4	DISP LINE	459	0 ~ 2048	
5	CLAMP	4	0 ~ 2048	
Group: 519 RGB PAL Gakaku				
0	TOTAL DOTS	1352	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB PAL
2	H BACK PORCH	651	0 ~ 2048	
3	V BACK PORCH	57	0 ~ 2048	
4	DISP LINE	535	0 ~ 2048	
5	CLAMP	4	0 ~ 2048	
Group: 520 RGB 1080i-60 Gakaku				
0	TOTAL DOTS	1206	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 1080i60
2	H BACK PORCTH	391	0 ~ 2048	
3	V BACK PORCTH	50	0 ~ 2048	
4	DISP LINE	1053	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 521 RGB 1080i-50 Gakaku				
0	TOTAL DOTS	1444	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 1080i50
2	H BACK PORCTH	386	0 ~ 2048	
3	V BACK PORCTH	51	0 ~ 2048	
4	DISP LINE	1050	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 522 RGB 1035i Gakaku				
0	TOTAL DOTS	1206	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 1035i
2	H BACK PORCTH	391	0 ~ 2048	
3	V BACK PORCTH	87	0 ~ 2048	
4	DISP LINE	1013	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 523 RGB 720p Gakaku				
0	TOTAL DOTS	1352	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 720p
2	H BACK PORCTH	871	0 ~ 2048	
3	V BACK PORCTH	56	0 ~ 2048	
4	DISP LINE	702	0 ~ 2048	
5	CLAMP	8	0 ~ 2048	
Group: 524 RGB 575p Gakaku				
0	TOTAL DOTS	1320	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 575p
2	H BACK PORCTH	856	0 ~ 2048	
3	V BACK PORCTH	100	0 ~ 2048	
4	DISP LINE	547	0 ~ 2048	
5	CLAMP	8	0 ~ 2048	

No.	Adjustment Item	Initial Value	Range	Input source / Description
Group: 525 RGB 480p Gakaku				
0	TOTAL DOTS	1283	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	RGB 480p
2	H BACK PORCTH	822	0 ~ 2048	
3	V BACK PORCTH	83	0 ~ 2048	
4	DISP LINE	462	0 ~ 2048	
5	CLAMP	7	0 ~ 2048	
Group: 526 SCART 575i Gakaku				
0	TOTAL DOTS	1352	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	SCART 575i
2	H BACK PORCTH	661	0 ~ 2048	
3	V BACK PORCTH	57	0 ~ 2048	
4	DISP LINE	535	0 ~ 2048	
5	CLAMP	0	0 ~ 2048	
Group: 527 SCART 480i Gakaku				
0	TOTAL DOTS	1314	0 ~ 2048	
1	DISP DOTS	1024	0 ~ 2048	SCART 480i
2	H BACK PORCTH	564	0 ~ 2048	
3	V BACK PORCTH	39	0 ~ 2048	
4	DISP LINE	459	0 ~ 2048	
5	CLAMP	0	0 ~ 2048	
Group: 550 Gakaku Option				
0	480i H Offset	243	0 ~ 255	Horizontal position offset of Component signal
1	575i H Offset	247	0 ~ 255	
2	HDCP Over Scan	0	0 ~ 3	HDCP 0 : No over scan 1 : 103% 2 : 106% 3 : 109%

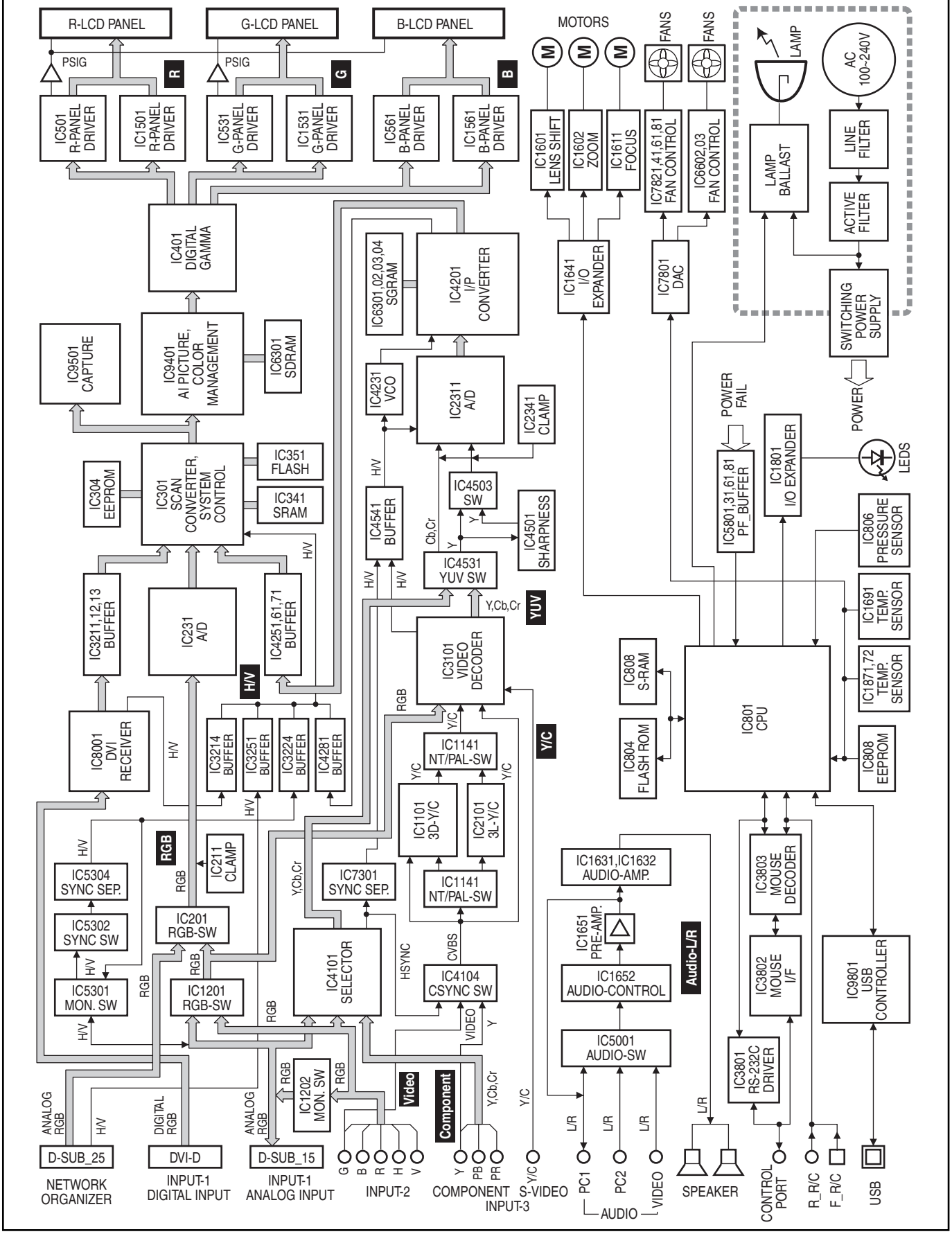
Test Points and Locations

● MAIN BOARD

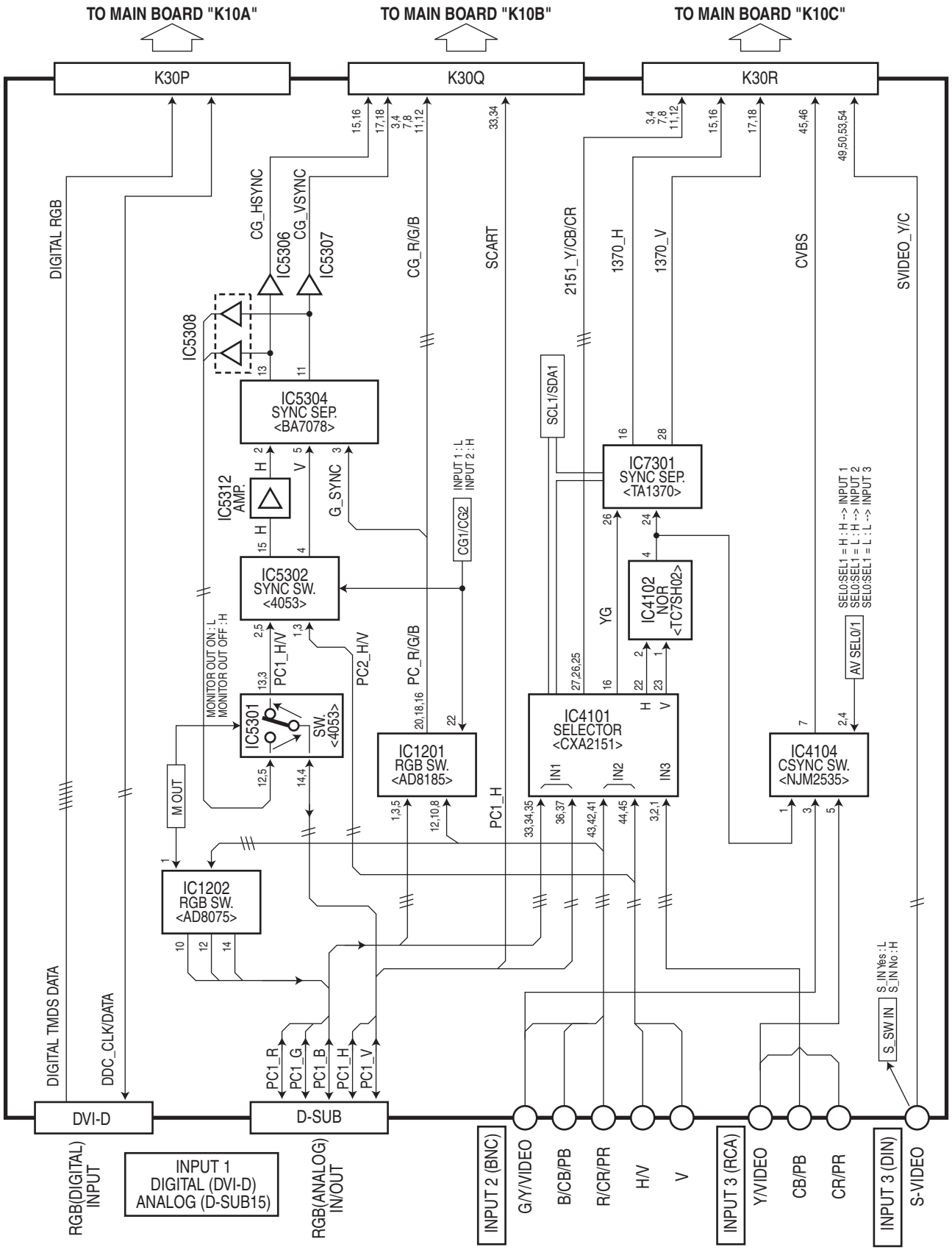


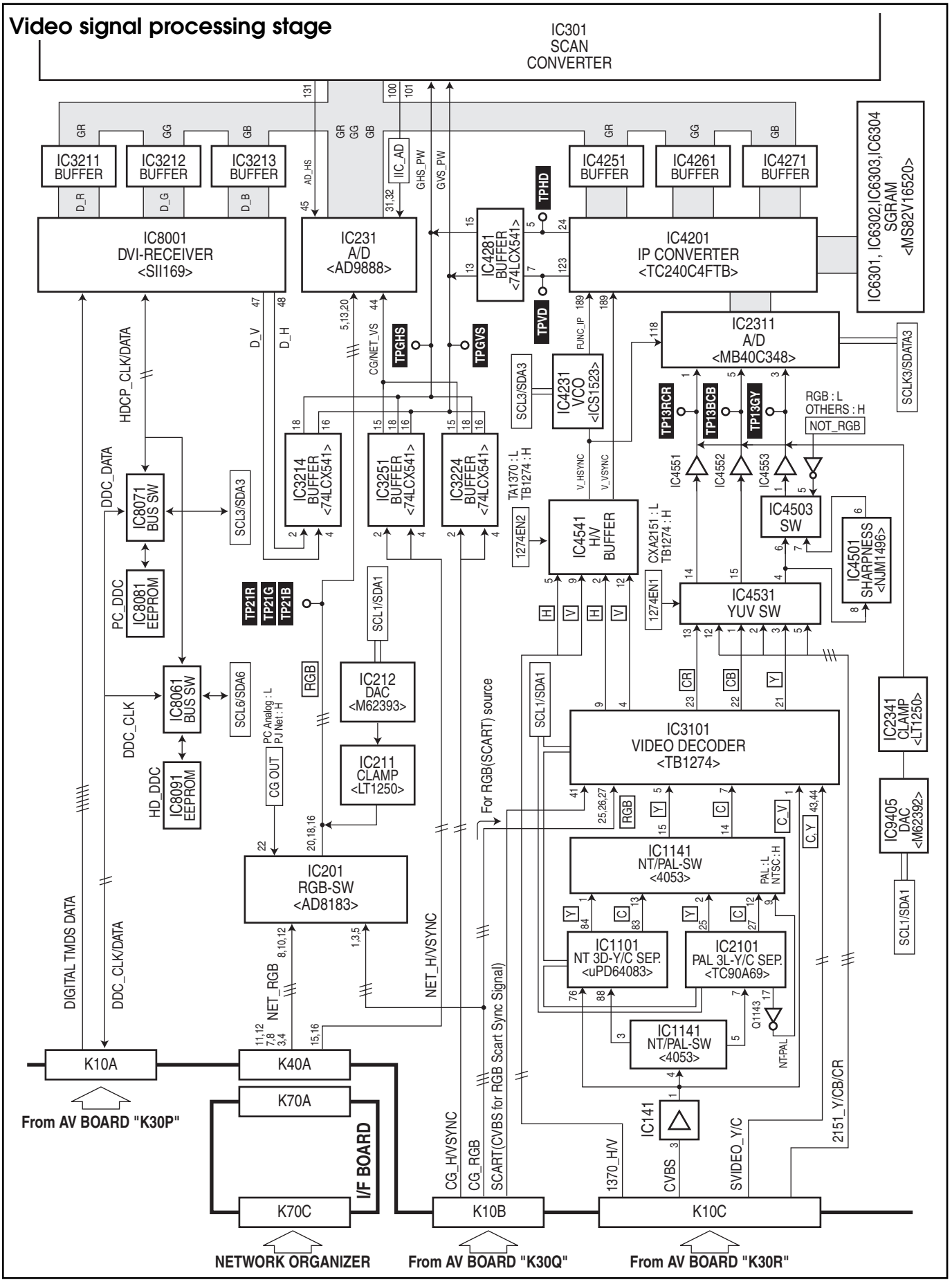
■ Chassis Block Diagrams

Chassis over view

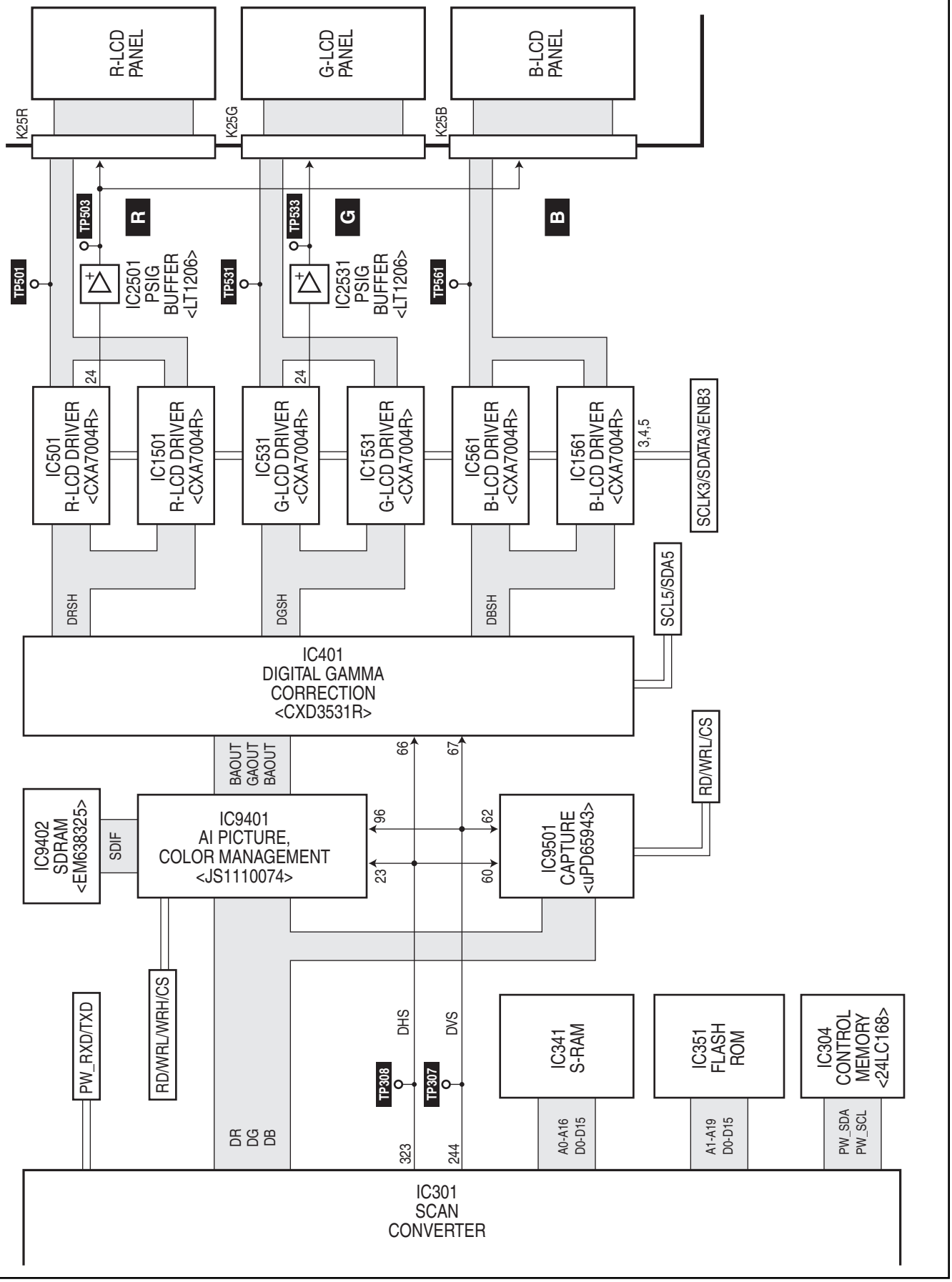


Inputs & video signal processing stage in AV BOARD

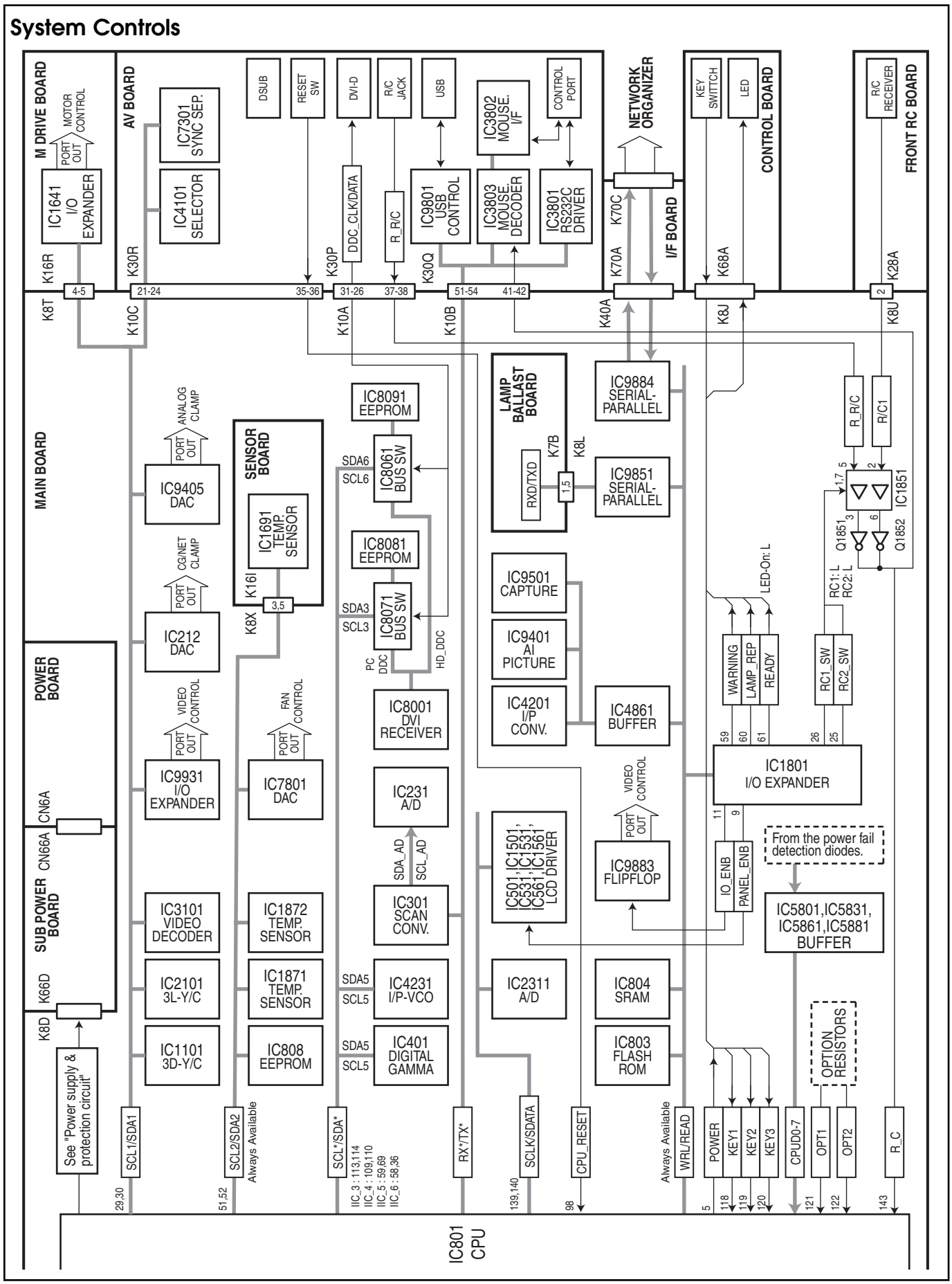



Video signal processing stage
IC301
SCAN
CONVERTER
IC3211
BUFFER
IC3212
BUFFER
IC3213
BUFFER
IC4251
BUFFER
IC4261
BUFFER
IC4271
BUFFER
IC6301, IC6302,IC6303,IC6304
SGRAM
<MS82V16520>
IC8001
DVI-RECEIVER
<SII169>
IC231
A/D
<AD9888>
IC4281
BUFFER
<74LCX541>
IC4201
IP CONVERTER
<TC240C4FTB>
IC2311
A/D
<MB40C348>
IC4231
VCO
<ICS1523>
IC3214
BUFFER
<74LCX541>
IC3251
BUFFER
<74LCX541>
IC3224
BUFFER
<74LCX541>
IC8071
BUS SW
IC8081
EEPROM
IC8061
BUS SW
IC8091
EEPROM
IC212
DAC
<M62393>
IC211
CLAMP
<LT1250>
IC4541
H/V
BUFFER
IC4551
IC4552
IC4553
IC4503
SW
IC4501
SHARPNESS
<NJM1496>
IC4531
YUV SW
IC2341
CLAMP
<LT1250>
IC9405
DAC
<M62392>
IC3101
VIDEO DECODER
<TB1274>
IC201
RGB-SW
<AD8183>
IC1141
NT/PAL-SW
<4053>
IC1101
NT 3D-Y/C SEP.
<uPD64083>
IC2101
PAL 3L-Y/C SEP.
<TC90A69>
IC1141
NT/PAL-SW
<4053>
IC141
TPHD
TPVD
TPGHS
TPGVS
TP21R
TP21G
TP21B
TP13RCR
TP13BCB
TP13GY
RGB : L
OTHERS : H
NOT_RGB
HDCP_CLK/DATA
DDC_DATA
PC_DDC
DDC_CLK
HD_DDC
DIGITAL TMDS DATA
DDC_CLK/DATA
NET_RGB
NET_H/VSYNC
For RGB(SCART) source
SCART(CVBS for RGB Scart Sync Signal)
CG_H/VSYNC
CG_RGB
1370_H/V
CVBS
SVIDEO_Y/C
2151_Y/CB/CR
NT-PAL
K10A
K40A
K70A
K70C
K10B
K10C
I/F BOARD
From AV BOARD "K30P"
NETWORK ORGANIZER
From AV BOARD "K30Q"
From AV BOARD "K30R"

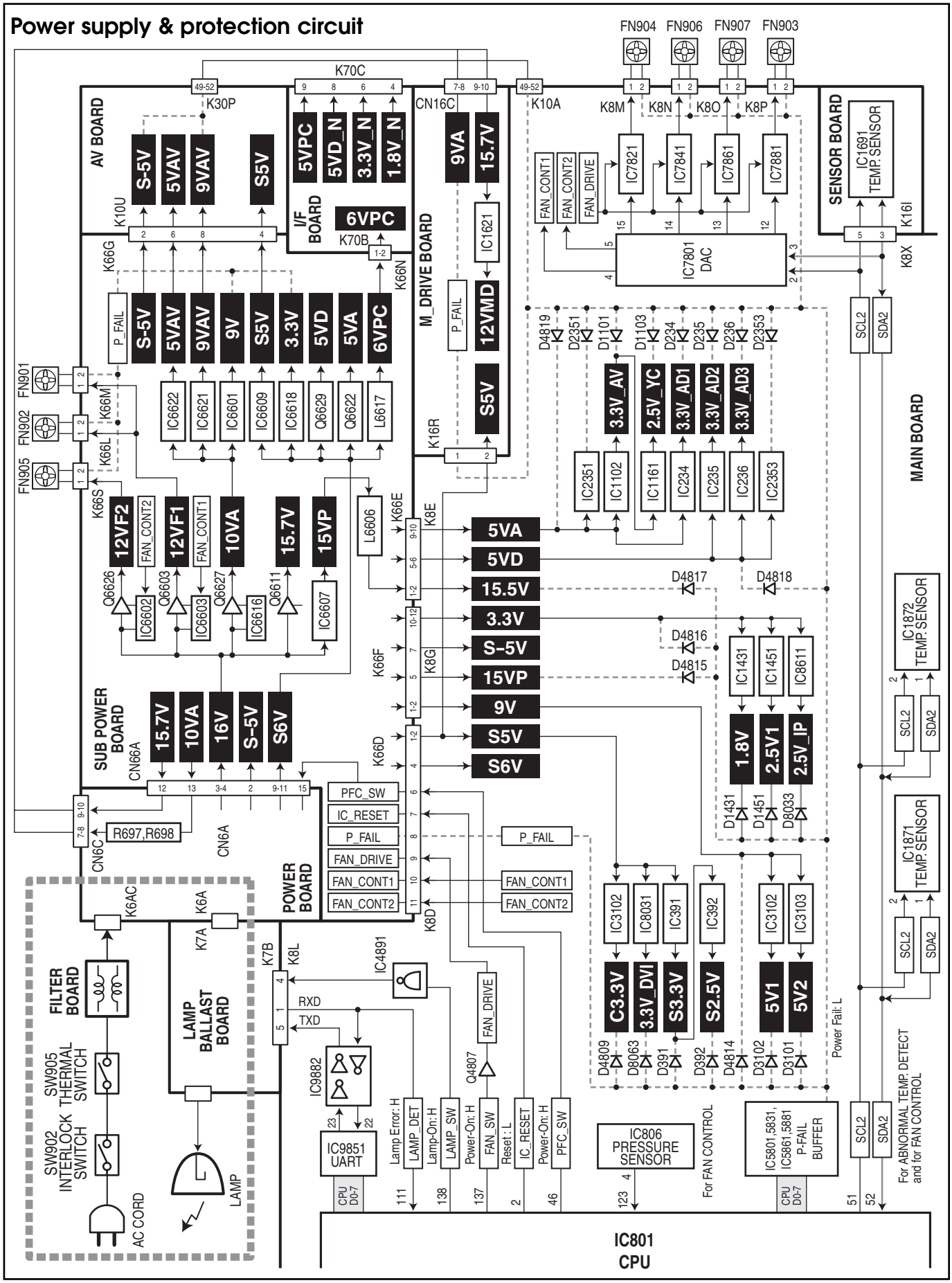
LCD panel driving stage



System Controls



■ Power Supply Lines



■ Troubleshooting

No Power

This projector provides a function which can be specified a defective area simply by indicating the LEDs on the control panel. Connect the AC cord and press the Power button once and then check the LED indication.

- When all the LED indicators are not lighting, the symptom indicates that the primary power supply circuit does not operate properly. Check the power primary circuit and parts as follow;

AC cord
F601 (Fuse)
Line filter board
SW905 (Thermal sw.) .....short in normal
SW905 opens when the surrounding temperature of the switch exceeds 90°C.
SW902 (Interlock sw.) .....short in normal
Check the lamp cover is fixed firmly. The projector cannot turn on with lamp cover removal.
Overload or over-voltage of power circuit
When the feedback circuit detects overload or over-voltage, check the PC602 and peripheral circuits.

- When both of the TEMP WARNING (red) and READY (green) indicators are flashing at the same time, the symptom indicates that the projector detected an abnormality in the cooling fan operation or in the power supply secondary circuits. Check fan operation and power supply lines, and the driving signal status.

Detected the abnormality on the secondary power supply lines.
Power failure detection diodes detect abnormal voltage on the power supply circuits.
POWER_FAIL (Error:L) signals are sent to IC5801, IC5831, IC5861, IC5881 and each IC detect the power fail signal, the main CPU IC801 sets the projector into the standby mode and indicates error mode with the LEDs flashing.
Check the shortage of secondary circuits, ICs, condensers, etc.
Check power supply lines, 9VA and 15.7V on the Drive Board, and 3.3V, 5VD, 5VA, S5V, 9V, 15VP and 15.5V on Main Board.
Check detection diodes, D1653, D1604 on Drive Board. Check detection diodes on Main Board (refer to the block diagram of power supply systems).

Detected the operation stop of cooling fans.
Power failure detection diodes detect the fan operation stop. Check Fans FN901, FN902, FN903, FN904, FN905, FN906 and FN907.
Check fan' s power supply lines and detection diodes and transistors D6610, D6614, D6616, D6617, D6618 and Q6609 on Sub Power Board and D7831, D7832, D7851, D7852, D7871, D7872, D7891 and D7892 on Main Board.

Abnormality on power starter signals (FAN_DRIVE/ FAN_SW).
FAN_SW signal is output from pin 137 of IC801 and applied to power switching circuit through Q4807. It drives the power oscillation circuit in Power Board and power supply for the cooling fans in Sub Power Board.
FAN_DRIVE/FAN_SW ..... High in power on
Check FAN_DRIVE and FAN_SW signals, switching circuit Q6623, Q6624, Q6604, IC6602, IC6603 and peripheral circuit on Sub Power Board.

Abnormality on fan drive signal (IC_RESET).
IC_RESET signal is output from pin 2 of IC801 and sent to Q6616, Q6612 and Q6613 on Sub Power Board. They switch power supply lines, 3.3V, 9V, 10VA, 15.7V, 15VP, 15.5V, 5VAV and 9VAV.
IC_RESET ..... High in power on
Check IC_RESET signal, IC801 on Main Board, drive transistors and ICs Q6616, Q6617, Q6612, Q6611, Q6613, Q6614, IC6608, IC6618, IC6607 and peripheral circuits.

- When the WARNING TEMP indicator (red) is flashing, the symptom indicates that the projector detected an abnormal temperature risen inside the projector. Check the air filters and remove the object near the intake and exhaust fan openings, and wait until the WARNING TEMP indicator flashing stops, and then try to turn on the projector.

Temperature sensor ICs detect abnormal temperature.

Check peripheral circuits and sensor ICs IC1691 on Sensor1 Board, IC1871 and IC1872 on Main Board.

- LAMP Circuit

Abnormality on power drive signal (LAMP_SW).

LAMP_SW signal is output from pin 138 of IC801 and sent to pin 4 of K8L on Main Board through IC4891, and to drive the Lamp Ballast Unit.

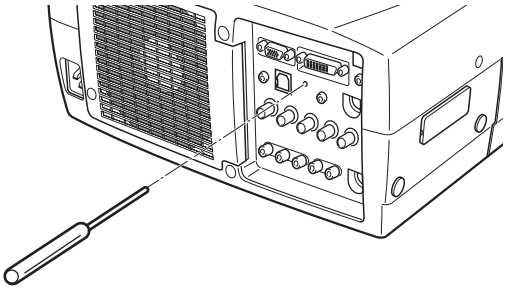
LAMP_SW .....High in power on

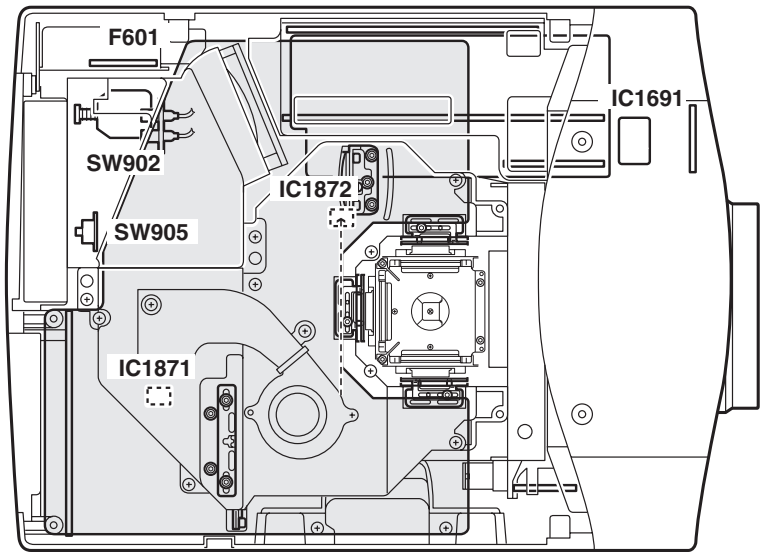
The lamp does not light

LAMP_DET signal (Error: H) is sent from the lamp ballast board and input to pin 111 of IC801, and the CPU turns off the projector. The cooling fans rotate at full speed for cooling down period and then the projector goes to stand-by mode.

Reset switch

The microprocessor inside the projector may occasionally malfunction and does not allow any controls. In this case, press the reset switch on the rear panel with a sharp tool to restart the projector.





The Locations of Protectors and sensors

No Picture

The possible causes of No Picture are listed below. Please check following and refer to video signal processing diagrams in the figure.

1. No picture from Video source

Composite Video Input
Check composite video signal at pins 3 (Input 2) and 5 (Input 3) of IC4104.
Check AV SEL0/1 switching signals at pins 2 and 4 of IC4104. (refer to the block diagram)
Check composite video signal at pins 45 and 46 of K30R on AV Board and K10C on Main Board.
Check Y, C signals at pins 15 and 14 of IC1141.
Check Y, C signals at pins 5 and 7 of IC3101.

S-Video Input
Check S-video signals at pins 49-50 (Y), 53-54(C) of K30R and K10C.
Check Y, C signals at pins 43 and 44 of IC3101.

Component Input
Check component signals at pins 41 (Pr), 42 (Pb) and 43 (Y) of IC4101.
Check component signals at pins 3-4 (Y), 7-8 (Pb) and 11-12 (Pr) of K30R and K10C.
Check component signals at pins 2 (Pb), 5 (Y) and 12 (Pr) of IC4531.

All of video signals
Check component signals (Y, Cb, Cr) at test points TP13GY, TP13BCB and TP13RCR.
Check Sync signals (AV_HSYNC, AV_VSYNC) at pins 4 and 9 of IC3101.
Check Sync signals (AV_HSYNC, AV_VSYNC) at pins 16 and 28 of IC7301.
Check RGB signals at pin 21, 22 and 23 of IC3101.
Check RGB signals at pins 15, 14 and 4 of IC4531.
Check Sync signals (AV_HSYNC, AV_VSYNC) at pins 5 and 7 of IC4281.

2. No picture from Computer source

RGB (Analog) Input
Check RGB(Input 1) signals at pins 1, 3 and 5 of IC1201 and at pins 33, 34 and 35 of IC4101.
(IC4101 is for RGB Video source.)
Check RGB(Input 2) signals at pins 12,10 and 8 of IC1201.
Check CG1/CG2 signal at pin 22 of IC1201.
IN1 : Low, IN2 : High
Check RGB signals at pins 3-4, 7-8 and 11-12 of K30Q on AV Board and K10B on Main Board.
Check RGB signals at pins 1, 3 and 5 of IC201.
Check RGB signals at test point TP21R,TP21G and TP21B.
Check Sync signals (CG_H/VSYNC) at pins 15-16and 17-18 of K30Q on AV Board and K10B on Main Board.
Check Sync signals (CG_H/VSYNC) at pins 2 and 4 of IC3224.

RGB (Scart) Input
Check RGB(Scart) signal at pins 1, 3 and 5 of IC1201.
Check RGB signals at pins 3-4, 7-8 and 11-12 of K30Q on AV Board and K10B on Main Board.
Check RGB signal at pins 25,26 and 27 of IC3101.
Check Scart Sync signal at pins 33 and 34 of K30Q on AV Board and K10B on Main Board.
Check Scart (composite video signal)Sync signal at pin 41 of IC3101.

RGB (Network) Input
Check RGB signals at pins 8, 10 and 12 of IC201.
Check RGB signals at test point TP21R,TP21G and TP21B.
Check Sync signals (NET_H/VSYNC) at pins 2 and 4 of IC3251.
Check CG-OUT signal at pin 22 of IC201.
Network : High, PC Analog : Low

3. No picture from DVI source.

RGB (Digital) Input
Check 5V power supply(5VDVI) at pins 1 and 2 of K10P.
Check Sync signal at pins 47 and 48 of IC8001.
Check ICs IC8001 and peripheral circuits.

4. No picture from all of sources

Check HSYNC signal at test point TPGHS and VSYNC signal at TPGVS.
Check RGB S&H signals at test points TP501, TP531 and TP561.
Check PSIG signals at test point TP503 and TP533.
Check power supply circuit 15.5V and 15VP and peripheral circuit.
Check ICs IC501, IC531, IC561, IC1501, IC1531, IC1561, IC9401, IC401 and peripheral circuits.

SIGNAL	K30Q/K10B	SIGNAL	K30R/K10C
R	3-4	AV_Y	3-4
G	7-8	AV_PB	7-8
B	11-12	AV_PR	11-12
CG_H-Sync	15-16	AV_H-Sync	15-16
CG_V-Sync	17-18	AV_V-Sync	17-18
CG1/CG2-SW	25-26	S_SW-IN	37-38
Scart-Sync	33-34	AV SEL-SW	39-42
		C-Video	45-46
		S-Y	49-50
		S-C	53-54

No Sound

1. No audio signals at AV input circuit.

Check audio signals at pins 1, 12 (CG1), 5, 14 (CG2) and 2, 15 (VIDEO) of IC5001 on AV Board. Check IC5001 and peripheral circuits.

2. Incorrect operation of Input mode switching.

Check AUDIO_SW1/AUDIO_SW2 switching signals at pins 9 and 10 of IC5001. The AUDIO_SW1/AUDIO_SW2 signals are output from pins 4 and 5 of IC1801. See the truth table below for input mode selection.

Logic Table of IC5001		
Pin 10	Pin 9	Mode
L	L	COMPUTER 1
H	L	COMPUTER 2
L	H	VIDEO

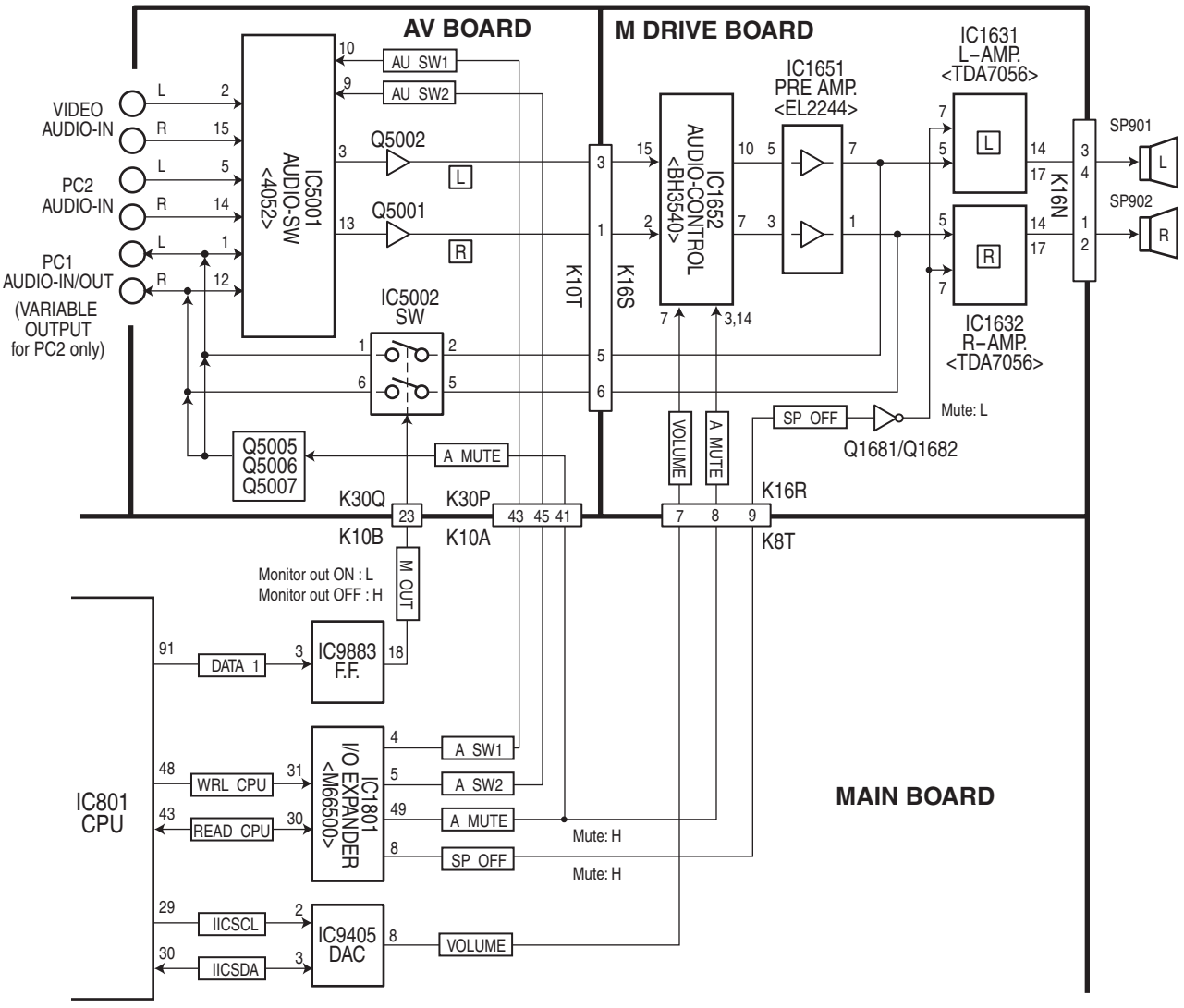
3. No audio output signal at speakers.

Check audio signals at pins 3, 4 and 1, 2 of K16S on M Drive Board.
Check MUTE signal at pin 8 of K16R/K8T.
The MUTE signal is output from pin 49 of IC1801.
Mute On : High
Check MUTE signal at pins 3 and 14 of IC1652.
Check SP OFF signal at pin 9 of K16R/K8T.
The SP OFF signal is output from pin 8 of IC1801 and sent to pin 7 of IC1631/IC1632 through Q1681/Q1682.
SP OFF signal from IC1801 : High
Check SP OFF signal at pin 7 of IC1631/IC1632.
SP OFF signal to IC1631/IC1632 : Low
Check sound volume signal at pin 7 of K16R/K8T.
The VOLUME signal is output from pin 8 of IC9405 and it is controlled by IC801 via the IIC bus.
Volume Min.: Low
Check audio signals at IC1651,IC1631, IC1632 and peripheral circuits.

4. No power supply at audio circuit.

Check 9VA(9V AUDIO) power supply line.

Audio signal processing circuit



Lens Motor Problems

1. No drive signals supplied at motors

Check drive signals at pins 1 and 2 of K16M for focus motor, pins 3 and 4 of K16M for zoom motor and pins 1 and 3 of K16L for lens shift motor on M Drive Board.
Check drive signals at pins 2 and 10 of ICs IC1611, IC1602 and IC1601.
Check ICs IC1611, IC1602 and IC1601 and peripheral circuits. Check motor drive power supply (15.7V).

2. No drive signals supplied at motor drive ICs.

Check drive signals at pins 5 and 6 of ICs IC1611, IC1602 and IC1601. They are supplied from pins 4 and 5 for focus drive, pins 6 and 7 for zoom drive and pins 9 and 10 for lens shift drive of IC1641 D/A control IC.

3. No drive signals output from CPU.

The motor dive signals are supplied from IC801, main CPU, via the IIC bus control lines.

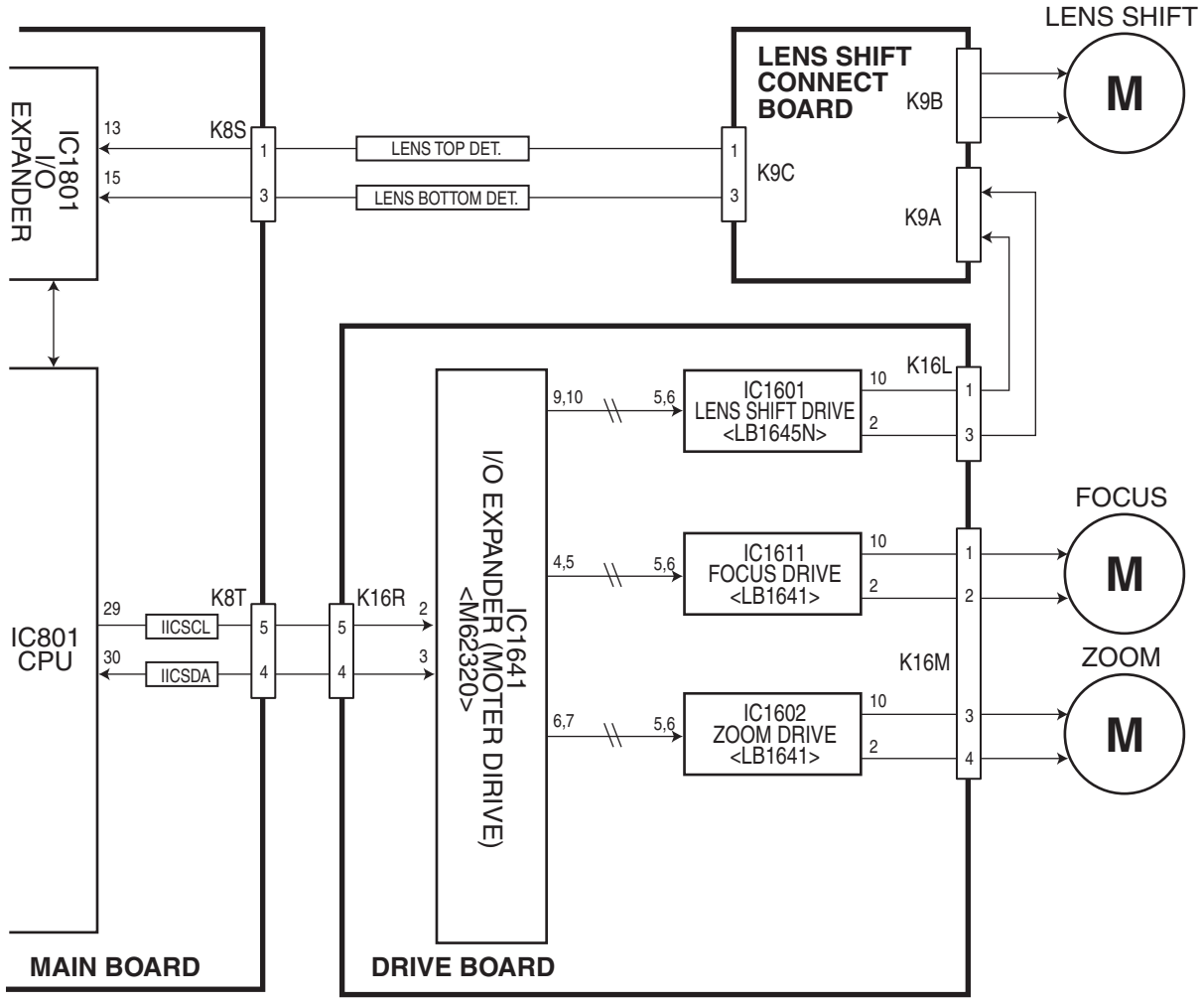
4. No key switch signals input to CPU.

Check signals at pins 118 to 120 of IC801 when pressing the key buttons. Check key buttons.

Logic Table of IC1611/IC1602/IC1601

Input		Output		Operation
5	6	10	2	
H	L	L	H	Forward drive
L	H	H	L	Reverse drive
H	H	L	L	Braking
L	L	-	-	Stand by

Motor driving circuit



■ Control Port Functions

● System Control & I/O Port Table (IC801)

Pin No.	Name	Function Name	Function	Polarity	I/O
1	PA23/WRHH	USB RESET	USB Reset Signal	Active L	O
2	PE14/TIOC4C/DACK0/AH	IC RESET	Power on/off control except FAN and LAMP	Active L	O
3	PA22/WRHL	CLB_CPU	SAM3		O
4	PA21/CASHH	NET_SP_RESET	PJ Net Reset	L : Reset	O
5	PE15/TIOC4D/DACK1/IRQOUT	POWER SW	LAMP LED	L: Power OFF H: Power ON	O
6	VSS	GND			
7	PC0/A0	ADDRESS0	Address Bus 0		O
8	PC1/A1	ADDRESS1	Address Bus 1		O
9	PC2/A2	ADDRESS2	Address Bus 2		O
10	PC3/A3	ADDRESS3	Address Bus 3		O
11	PC4/A4	ADDRESS4	Address Bus 4		O
12	VCC	5V			
13	PC5/A5	ADDRESS5	Address Bus 5		O
14	VSS	GND			
15	PC6/A6	ADDRESS6	Address Bus 6		O
16	PC7/A7	ADDRESS7	Address Bus 7		O
17	PC8/A8	ADDRESS8	Address Bus 8		O
18	PC9/A9	ADDRESS9	Address Bus 9		O
19	PC10/A10	ADDRESS10	Address Bus 10		O
20	PC11/A11	ADDRESS11	Address Bus 11		O
21	PC12/A12	ADDRESS12	Address Bus 12		O
22	PC13/A13	ADDRESS13	Address Bus 13		O
23	PC14/A14	ADDRESS14	Address Bus 14		O
24	PC15/A15	ADDRESS15	Address Bus 15		O
25	PB0/A16	ADDRESS16	Address Bus 16		O
26	VCC	5V			
27	PB1/A17	ADDRESS17	Address Bus 17		O
28	VSS	GND			
29	PA20/CASHL	SCL 1	IIC Bus 1 Clock		I/O
30	PA19/BACK/DRAK1	SDA 1	IIC Bus 1 Data		I/O
31	PB2/IRQ0/POE0/RAS	RESET_CPU	IP Reset		O
32	PB3/IRQ1/POE1/CASL		Not used		
33	PA18/BREQ/DRAK0	SYS SW	Peripheral IC Power SW (ON=L, OFF=H)		O
34	PB4/IRQ2/POE2/CASH	AFT-V	Vertical Sync. Signal for Panel Drive		I
35	VSS	GND			
36	PB5/IRQ3/POE3/RDWR	SDA 6	IIC Bus 6 Data		I/O
37	PB6/IRQ4/A18/BACK	ADDRESS18	Address Bus 18		O
38	PB7/IRQ5/A19/BREQ	ADDRESS19	Address Bus 19		O
39	PB8/IRQ6/A20/WAIT	ADDRESS20	Address Bus 20		O
40	VCC	5V			
41	PB9/IRQ7/A21/ADTRG	ADDRESS21	Address Bus 21		O
42	VSS	GND			
43	PA14/RD	READ	Read signal	Active L	O
44	WDTOVF	WDT	Over flow output from Watch dog timer	Not used	O
45	PD31/D31/ADTRG	RTS	RS232C RTS (Request To Send)	Not used	I
46	PD30/D30/IRQOUT	PFC_SW	Main Power ON/OFF	Fan ON = H	O
47	PA13/WRH	WRH	Write signal (Higher 8 bit)	Active L	O
48	PA12/WRL	WRL	Write signal (Lower 8 bit)	Active L	O
49	PA11/CS1	SRAM_CS	SRAM Chip Select	Active L	O
50	PA10/CS0	CS0	Flash Memory Chip Select	Active L	O
51	PA9/TCLKD/IRQ3	SCL 2	IIC Bus 2 Clock		I/O
52	PA8/TCLKC/IRQ2	SDA 2	IIC Bus 2 Data		I/O
53	PA7/TCLKB/CS3	CS3	USB / IP / CHO / iO EXP Chip Select	Active L	O
54	PA6/TCLKA/CS2	CS2	SAM3 Chip Select	Active L	O
55	VSS	GND			
56	PD29/D29/CS3	IPOUT_CPU	IP Output Enable	AV = L	O
57	PD28/D28/CS2	PW_SEL	PW365 RS232C Select	SAM3 = L	O
58	PD27/D27/DACK1	SCL 6	IIC Bus 6 Clock		O
59	PD26/D26/DACK0	SCL 5	IIC Bus 6 Data		O
60	PD25/D25/DREQ1	PW_OUT0	PW_365 Data output	(reserve)	O
61	VSS	GND			
62	PD24/D24/DREQ0	NET_H/L	PJ Net Command waiting	Active L	O
63	VCC	5V			
64	PD23/D23/IRQ7	SAM3_INT	SAM3	(reserve)	I
65	PD22/D22/IRQ6	DVI_OUT		DVI = L	O
66	PD21/D21/IRQ5	CHO_RESET	M66230 (for LAMP Control) Reset	H - L - H = Reset	O
67	PD20/D20/IRQ4	SAM_HZ	SAM3 High impedance	Hi-Z = L	O
68	PD19/D19/IRQ3	CHO_INT	M66230 (for LAMP Control) Dividing signal input	Active L	I
69	PD18/D18/IRQ2	SDA 5	IIC Bus 5 Data		I/O
70	PD17/D17/IRQ1	PW_IN0	PW365 AD Power down input	Down = L	I
71	VSS	GND			

Pin No.	Name	Function Name	Function	Polarity	I/O
72	PD16/D16/IRQ0	reserve			
73	PD15/D15	DATA15	Data Bus 15		I/O
74	PD14/D14	DATA14	Data Bus 14		I/O
75	PD13/D13	DATA13	Data Bus 13		I/O
76	PD12/D12	DATA12	Data Bus 12		I/O
77	VCC	5V			
78	PD11/D11	DATA11	Data Bus 11		I/O
79	VSS	GND			
80	PD10/D10	DATA10	Data Bus 10		I/O
81	PD9/D9	DATA9	Data Bus 9		I/O
82	PD8/D8	DATA8	Data Bus 8		I/O
83	PD7/D7	DATA7	Data Bus 7		I/O
84	PD6/D6	DATA6	Data Bus 6		I/O
85	VCC	5V			
86	PD5/D5	DATA5	Data Bus 5		I/O
87	VSS	GND			
88	PD4/D4	DATA4	Data Bus 4		I/O
89	PD3/D3	DATA3	Data Bus 3		I/O
90	PD2/D2	DATA2	Data Bus 2		I/O
91	PD1/D1	DATA1	Data Bus 1		I/O
92	PD0/D0	DATA0	Data Bus 0		I/O
93	VSS	GND			
94	XTAL	XTAL	Oscillator Input		I
95	MD3	Mode 3	Multiplex setting with Mode 2	(set H)	I
96	EXTAL	EXTAL	Oscillator output		O
97	MD2	Mode 2	Multiplex setting with Mode 3	(set L)	I
98	NMI	CPU_RESET	Manual Reset (Non-maskalable input)		I
99	VCC (FWP)	FWP	Write Mode for Flash memory		I
100	PA16/AH	FLASH MODE	FWP Control		O
101	PA17/WAIT	FAN ON/OFF	Not used		O
102	MD1	Mode 1	MCU Mode setting with Mode 0	(set H)	I
103	MD0	Mode 0	MCU Mode setting with Mode 1	(set L)	I
104	PLLVCC	PLLVCC	Power for PLL		
105	PLLCAP	PLLCAP	PLL Filter		
106	PLLVSS	PLLGND	GND for PLL		
107	PA15/CK	M-CLK	CPU Clock output	Not used	O
108	RES	RESET	RESET Input	Active L	I
109	PE0/TIOC0A/DREQ0	SCL 4	IIC Bus 4 Clock		I/O
110	PE1/TIOC0B/DRAK0	SDA 4	IIC Bus 4 Data		I/O
111	PE2/TIOC0C/DREQ1	LAMP_DET	Detection Lamp Error	Error = H	I
112	VCC	5V			
113	PE3/TIOC0D/DRAK1	SDA3	IIC Bus 3 Data		I/O
114	PE4/TIOC1A	SCL3	IIC Bus 3 Clock		I/O
115	PE5/TIOC1B	USB_BRST	Pull-up resistor on/off for USB	ON = L	O
116	PE6/TIOC2A		Not used		O
117	VSS	GND			
118	PF0/AN0	KEY1	Key input 1		I
119	PF1/AN1	KEY2	Key input 2		I
120	PF2/AN2	KEY3	Key input 3		I
121	PF3/AN3	OPT1	Option Destination		I
122	PF4/AN4	OPT2	Option Panel Maker		I
123	PF5/AN5	PRESSER	Air pressure sensor		I
124	AVSS	GND	GND for A/D		
125	PF6/AN6	POWER FAIL	Power Fail	Not used	I
126	PF7/AN7	OPT3	Not used		I
127	AVREF	5 V	Reference Voltage for A/D		I
128	AVCC	5 V	Power for A/D		I
129	VSS	GND			
130	PA0/RXD0	PW_RX	PW365 Rx	Active L	I
131	PA1/TXD0	PW_TX	PW365 Tx	Active L	O
132	PA2/SCK0/DREQ0/IRQ0	NET_SP_INT	Dividing signal input from M66230	Active L	I
133	PA3/RXD1	RXD	RS232C Rx	Active L	I
134	PA4/TXD1	SH_TXD	RS232C Tx	Active L	O
135	VCC	5V			
136	PA5/SCK1/DREQ1/IRQ1	USB INTR	USB Dividing signal input	Active L	I
137	PE7/TIOC2B	FAN SW	FAN ON/OFF output	Fan ON = H	O
138	PE8/TIOC3A	LAMP SW	LAMP ON/OFF output	Active H	O
139	PE9/TIOC3B	SDATA OUT	Serial Data output		O
140	PE10/TIOC3C	SCLK	Serial Clock output		O
141	VSS	GND			
142	PE11/TIOC3D	EXP RESET	I/O Expander	Active H	O
143	PE12/TIOC4A	R/C	Remote Control signal input	Active L	I
144	PE13/TIOC4B/MRES	PW RESET	PW365 Reset signal output	Active L	O

● Parallel I/O Expander (IC1801, M66500FP)

Pin No.	Name	Function Name	Function	Polarity	I/O
1	PF6	PLLSTB_CPU	CXD3531 Reset (Reset = PLLSTB/XCLR : H/L --> L/L --> L/H)		O
2	PF7	XCLR_CPU	CXD3531 Reset		O
3	Vcc	5 V			-
4	PE0	A SW1	Audio SW 1 (SW1/SW2 : L/L = IN-1, H/L = IN-2, L/H = IN-3)		O
5	PE1	A SW2	Audio SW 2		O
6	PE2	SYNC_OFF	Sync OFF for RGB input	Sync OFF = L	O
7	PE3	IPSEL_CSA	CPU Strobe signal for IP Conversion	Active L	O
8	PE4	SP_OFF	Speaker output On/Off	On = H	O
9	PE5	IPANEL_ENB	CXA7004R Enable	Active L	O
10	PE6		Not used		
11	PE7	IO_ENB	BUS I/O Enable	Enable = L	O
12	GND3	GND	-		
13	PB0	LENS_TOP	Lens Top Detection	Top=L	I
14	PB1		Not used		
15	PB2	LENS_BOTTOM	Lens Bottom Detection	Bottom=L	I
16	PB3		Not used		I
17	PB4		Not used		I
18	PB5	S-SWIN	S-Input Detection Yes/No	Yes = H	I
19	PB6		Not used		I
20	PB7		Not used		I
21	PA7	RC_RESET	Air Mouse IC Reset	H - L - H = Reset	I
22	PA6	RCIDSW3	Remote control code SW (1/2/3 : LLL = Code1, HLL = Code2, - - -)		O
23	PA5	RCIDSW2	Remote control code SW		O
24	PA4	RCIDSW1	Remote control code SW		O
25	PA3	RC2_SW	Rear remote control pre-amp. output On/Off	Enable = L	O
26	PA2	RC1_SW	Front remote control pre-amp output On/Off	Enable = L	O
27	PA1	ECO_SW	Lamp Eco Mode sw	Eco = H	O
28	PA0	TURBO_LED	Bright LED Drive		O
29	Vcc	5V			
30	RD	READ_CPU	Read Select	Active L	I
31	WR	WRL_CPU	Write Select	Active L	I
32	CS	IO_CS	Chip Select	Active L	I
33	RESET	EXP_RST	Reset input	Active H	I
34	GND1	GND	-		
35	A2	PORT_SEL2	Port Select 2		I
36	A1	PORT_SEL1	Port Select 1		I
37	A0	PORT_SEL0	Port Select 0		I
38	D0	D0	Data Bus 0		I/O
39	D1	D1	Data Bus 1		I/O
40	D2	D2	Data Bus 2		I/O
41	D3	D3	Data Bus 3		I/O
42	D4	D4	Data Bus 4		I/O
43	D5	D5	Data Bus 5		I/O
44	D6	D6	Data Bus 6		I/O
45	D7	D7	Data Bus 7		I/O
46	PC7	MOUSE/CPU_SW	CPU/Air Mouse Select	Mouse = L	O
47	PC6	NET_SW	Network Imager On/Off	Net On = L	O
48	PC5	NET_OUT	Network Imager Sync Enable	Enable = L	O
49	PC4	A_MUTE	Mute output		O
50	PC0	CG1/CG2	Computer 1/Computer 2 SW	CG1 = L	O
51	PC1	CG_OUT	RGB (PC Analog)/ RGB (PJ Net) signal selector	PC = L	O
52	PC2	NOT_RGB	Soft Sharpness SW	RGB = L	O
53	PC3	DDC_CONT	DDC PC/CPU SW	CPU = H	O
54	PG0		Not used		I
55	PG1	NET_DET	Network Imager detection	Network = L	I
56	PG2		Not used		
57	PG3	SCDT_DIF	DVI Sync Detection	DVI = H	I
58	GND2	GND			
59	PF0	WARNING	Temp Warning LED Drive output	LED On = L	O
60	PF1	LAMP_REP	Lamp Replace LED Drive output	LED On = L	O
61	PF2	READY	Ready LED Drive output	LED On = L	O
62	PF3	PD_DIF	PD DVI power down output	Lamp ON = L	O
63	PF4	DVI_CONT	PD0 DVI power down output	Enable = L	O
64	PF5	DDC_WRITE	HD-DDC PC/CPU SW	CPU = H	O

● IIC Bus I/O Expander (IC1641, M62320FP) Port Functions

Pin No.	Name	Function	Action		I/O
1	SO	Serial Data output port (Not connected)			O
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	D0	FOCUS+	FOCUS +	Active H	O
5	D1	FOCUS-	FOCUS -	Active H	O
6	D2	ZOOM+	ZOOM +	Active H	O
7	D3	ZOOM-	ZOOM -	Active H	O
8	Vss	GND			-
9	D4	LENS UP	LENS UP	Active H	O
10	D5	LENS DOWN	LENS DOWN	Active H	O
11	D6	BRIGHT ON	BRIGHT ON	Active H	O
12	D7	BRIGHT OFF	BRIGHT OFF	Active H	O
13	Vdd	Power supply +5V			-
14	CS2	Slave address setting port 2 (GND)			I
15	CS1	Slave address setting port 1 (GND)			I
16	CS0	Slave address setting port 0 (GND)			I

● IIC Bus I/O Expander (IC9931, M62320FP) Port Functions

Pin No.	Name	Function	Action		I/O
1	SO	Serial Data output port (Not connected)			O
2	SCL	IIC BUS SCL			I
3	SDA	IIC BUS SDA			I/O
4	D0	SMODE	Soft Sharpness	Set H	O
5	D1	CONT2_ON	M2SEL0/1 Short/Open	Short = L	O
6	D2	PJ_ON	Serial Mouse setting for Network	Forced = L	O
7	D3	PIXS (DVI Pixel select mode)	2 pixel per clock mode	Set H	O
8	Vss	GND			-
9	D4	Not used			O
10	D5	Not used			O
11	D6	Not used			O
12	D7	Not used			O
13	Vdd	Power supply +5V			-
14	CS2	Slave address setting port 2 (GND)			I
15	CS1	Slave address setting port 1 (GND)			I
16	CS0	Slave address setting port 0 (Vdd)			I

● IIC Bus DA Converter (IC9405, M62392FP) Port Functions

Pin No.	Name	Function		I/O
1	R	Reset input		I
2	SCL	IIC BUS SCL		I
3	SDA	IIC BUS SDA		I/O
4	A07	DAC_VRB	AV black level Adjustment	O
5	A08	DAC_RCR	AV white level Adjustment	O
6	A09	DAC_GY	AV white level Adjustment	O
7	A10	DAC_BCB	AV white level Adjustment	O
8	A11	VOLUME	-	O
9	A12	LF_LEV	-	O
10	VrefL	DAC Lower Reference Voltage input		-
11	VrefU1	DAC Upper Reference Voltage input (CH5~CH8)		-
12	Vss	GND		-
13	VrefU2	DAC Upper Reference Voltage input (CH1~CH 4)		-
14	A01	SGAIN+	Soft Sharpness control	O
15	A02	SGAIN-	Soft Sharpness control	O
16	A03	RCR_CLP	AV Cr/R pedestal Adjustment	O
17	A04	GY_CLP	AV Y/G Pedestal Adjustment	O
18	A05	BCB_CLP	AV Cb/B Pedestal Adjustment	O
19	A06	Not used		
20	Vcc	Power Supply for Output Buffer (4.5V ~ 5.5V)		-
21	Vdd	Power Supply +5V		-
22	CS2	Slave address setting port 2 (GND)		I
23	CS1	Slave address setting port 1 (Vdd)		I
24	CS0	Slave address setting port 0 (GND)		I

● IIC Bus D/A Converter (IC7801, M62399FP) Port Functions

Pin No.	Name	Function		I/O
1	R	Reset Input		I
2	SCL	IIC BUS SCL		I
3	SDA	IIC BUS SDA		I/O
4	A05	FAN_CONT1	FN901,FN902 = Intake Fans	O
5	A06	FAN_CONT2	FN905 = Exhaust Fan	O
6	A07	Not used		O
7	A08	Not used		O
8	VrefL	DAC Lower Reference Voltage input		-
9	VrefU 1	DAC Upper Reference Voltage input (CH5~CH8)		-
10	Vss	GND		-
11	VrefU 2	DAC Upper Reference Voltage input (CH1~CH 4)		-
12	A01	FAN_CONT4	FN903 = Cooling Fan for PBS	O
13	A02	FAN_CONT5	FN907 = Cooling Fan for Lamp Bottom	O
14	A03	FAN_CONT6	FN906 = Cooling Fan for Lamp Front	O
15	A04	FAN_CONT7	FN904 = Cooling Fan for Power Board	O
16	Vcc	Power Supply for Output Buffer (12V)		-
17	Vdd	Power Supply +5V		-
18	CS2	Slave address setting port 2 (Vdd)		I
19	CS1	Slave address setting port 1 (Vdd)		I
20	CS0	Slave address setting port 0 (Vdd)		I

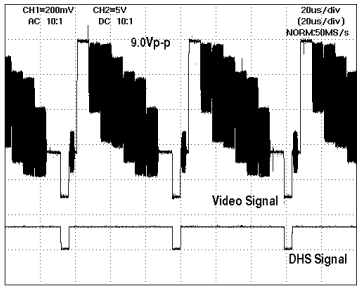
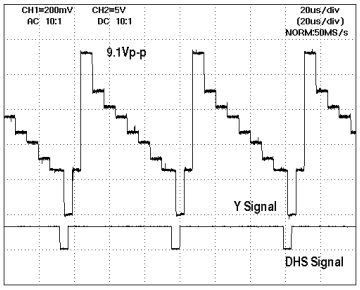
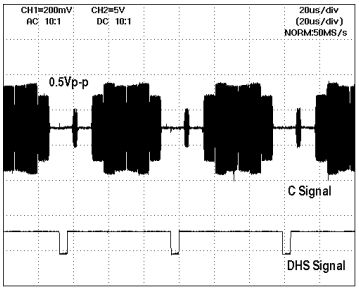
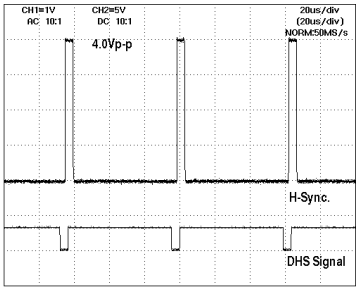
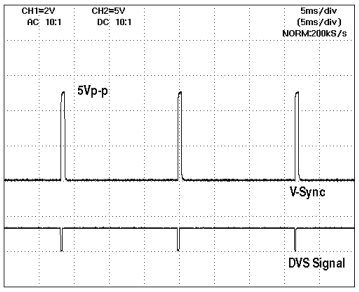
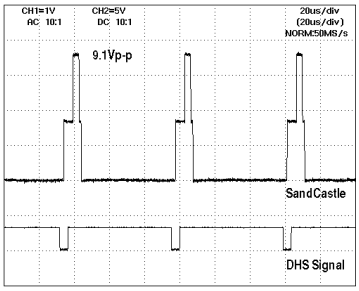
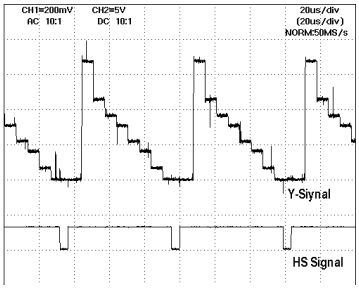
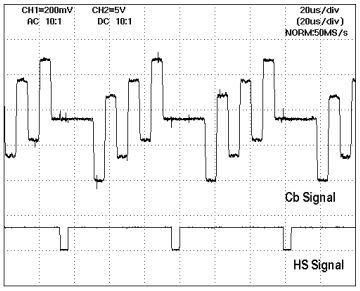
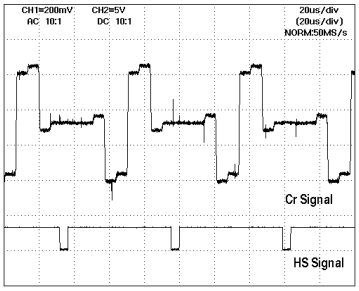
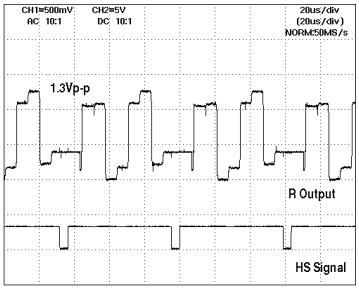
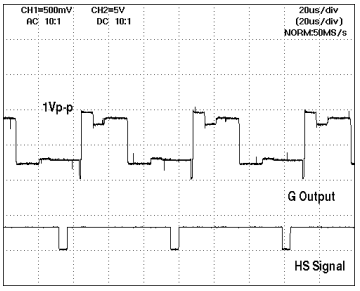
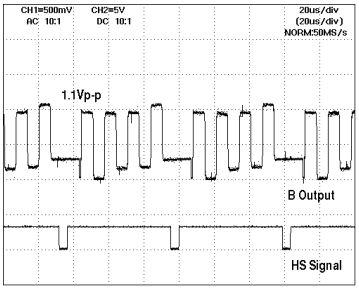
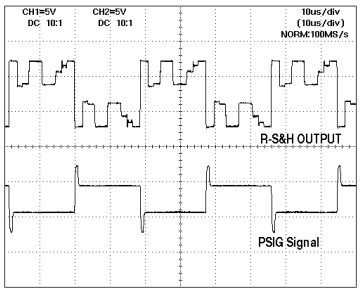
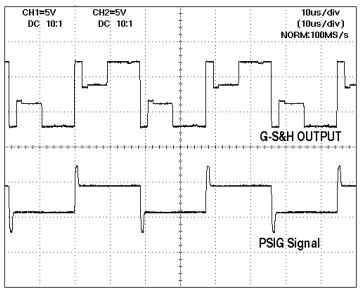
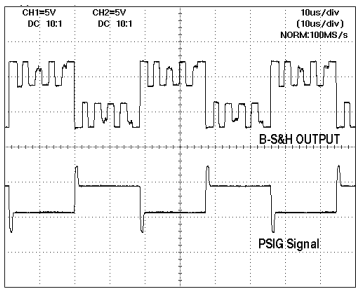
● IIC Bus D/A Converter (IC212, M62393FP) Port Functions

Pin No.	Name	Function	I/O
1	R	Serial Data output port (Not connected)	O
2	SCL	IIC BUS SCL	I
3	SDA	IIC BUS SDA	I/O
4	A05	Not used	O
5	A06	Not used	O
6	A07	Not used	O
7	A08	Not used	O
8	VrefL	DAC Lower Reference Voltage input	-
9	VrefU 1	DAC Upper Reference Voltage input (CH5~CH8)	-
10	Vss	GND	-
11	VrefU2	DAC Upper Reference Voltage input (CH1~CH 4)	-
12	A01	AV_RCLP	O
13	A02	AV_GCLP	O
14	A03	AV_BCLP	O
15	A04	VOLUME	O
16	Vcc	Power Supply for Output Buffer (4.5V ~ 5.5V)	-
17	Vdd	Power Supply +5V	-
18	CS2	Slave address setting port 2 (Vdd)	I
19	CS1	Slave address setting port 1 (GND)	I
20	CS0	Slave address setting port 0 (GND)	I

● Serial Controlled Output Expander (IC9883, TC74VHC574FT) Port Functions

Pin No.	Name	Function			I/O
1	OE	IO_ENB			I
2	D0	D0			I
3	D1	D1			I
4	D2	D2			I
5	D3	D3			I
6	D4	D4			I
7	D5	D5			I
8	D6	D6			I
9	D7	D7			I
10	GND	GND			-
11	CK	ADD1_CS	Output Port Chip Select	Enable = L	I
12	Q7	1274EN2	IP input sync SW	(TA1370 = L , TB1274 = H)	O
13	Q6	1274EN1	IP input component signal SW	(CXA2151 = L , TB1274 = H)	O
14	Q5	AV_SEL1	TB274 input composite sync signal SW		O
15	Q4	AV_SEL0	(SEL0/SEL1 : H/H = IN1<Scart>, L/H = IN2, L/L = IN3)		O
16	Q3	DVI_RESET	DVI Receiver IC reset	Reset = H	O
17	Q2	Not used			O
18	Q1	M_OUT	MONITOR OUT On/Off	On = L	O
19	Q0	DDC_SW	Select EEPROM for DDC	(PC = L , HDCP = H)	O
20	Vdd	Power Supply +5V			-

■ Waveforms

VIDEO-IN <IC3101-1>	Y-IN <IC3101-5>	C-IN <IC3101-7>
		
H-SYNC-OUT <IC3101-9>	**V-SYNC-OUT <IC3101-4>**	**Sandcastle-OUT <IC3101-10>**
		
Y-IN <TP13GY>	**CB-IN <TP13BCB>**	**CR-IN <TP13BCR>**
		
R <TP21R>	**G <TP21G>**	**B <TP21B>**
		
R-S&H OUT <TP501>	**G-S&H OUT <TP531>**	**B-S&H OUT <TP561>**
		

■ Cleaning

After long periods of use, dust and other particles will accumulate on the LCD panel, prism, mirror, polarized glass, lens, etc., causing the picture to darken or color to blur. If this occurs, clean the inside of optical unit.

Remove dust and other particles using air spray. If dirt cannot be removed by air spray, disassemble and clean the optical unit.

Cleaning with air spray

1. Remove the cabinet top following to “Mechanical Disassemblies”.
2. Clean up the LCD panel and polarizing plate by using the air spray from the cabinet top opening.

Caution:
Use a commercial (inert gas) air spray designed for cleaning camera and computer equipment. Use a resin-based nozzle only. Be vary careful not to damage optical parts with the nozzle tip. Never use any kind of cleanser on the unit. Also, never use abrasive materials on the unit as this may cause irreparable damage.

Disassembly Cleaning

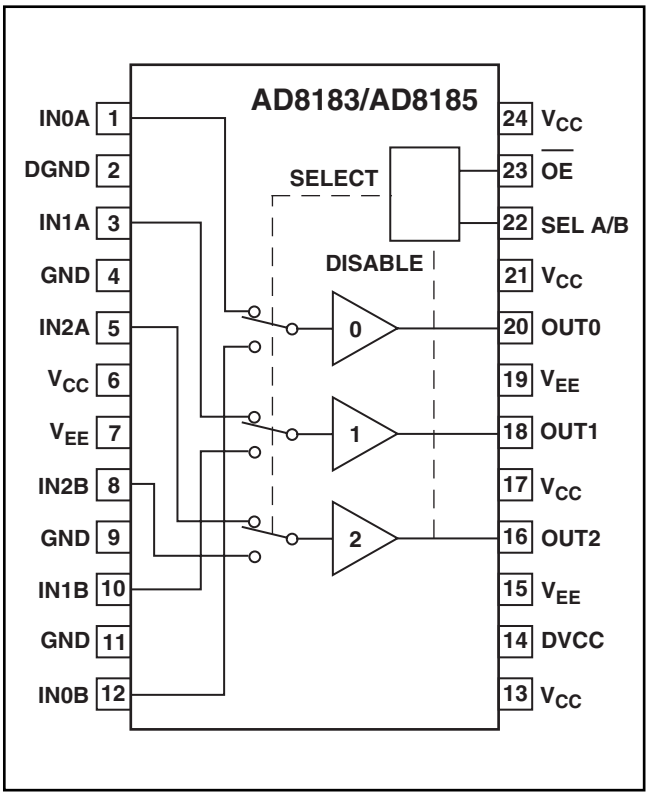
Disassembly cleaning method should only be performed when the unit is considerable dirty and cannot be sufficiently cleaned by air spraying alone.
Be sure to readjust the optical system after performing disassembly cleaning.

1. Remove the cabinet top and main units following to “Mechanical Disassemblies”.
2. Remove the optical base top following to “Optical Unit Disassemblies”. If the LCD panel needs cleaning, remove the LCD panel unit following to “LCD panel replacement”.
3. Clean the optical parts with a soft cloth. Clean extremely dirty areas using a cloth moistened with alcohol.

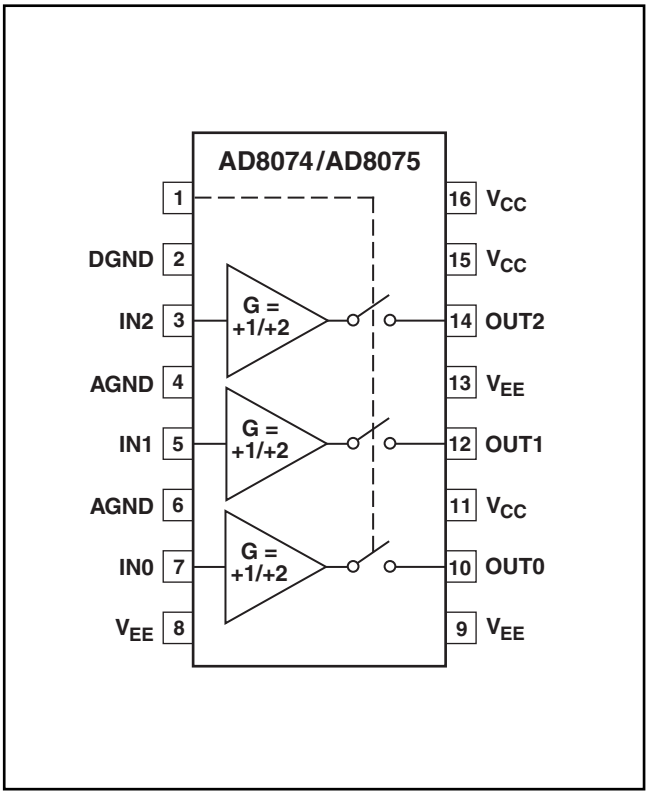
Caution:
The surface of the optical components consists of multiple dielectric layers with varying degrees of refraction. Never use organic solvents (thinner, etc.) or any kind of cleanser on these components.
Since the LCD panel is equipped with an electronic circuit, never use any liquids (water, etc.) to clean the unit. Use of liquid may cause the unit to malfunction.

■ IC Block Diagrams

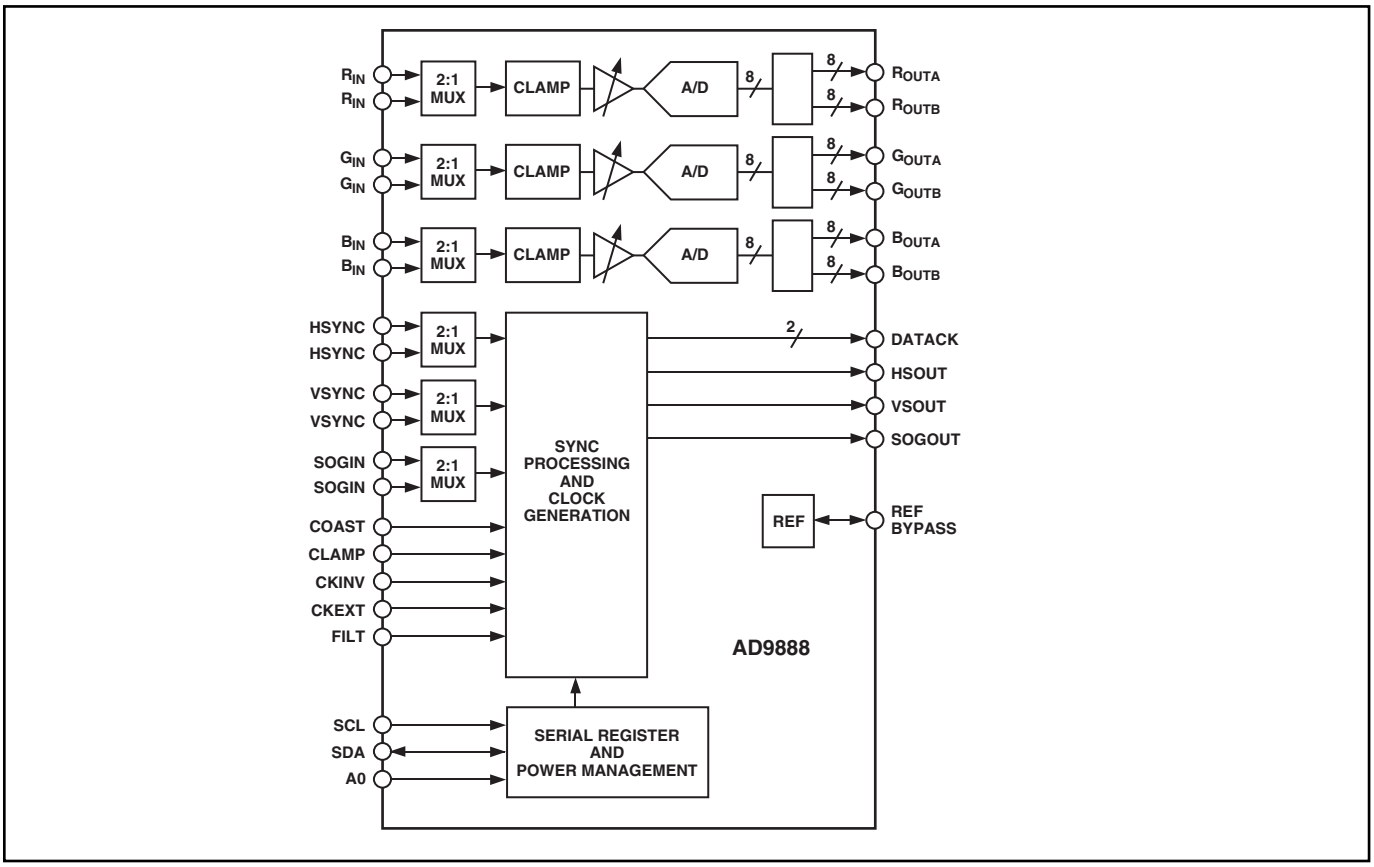
● AD8183ARU/AD8185ARU <Selector, IC201, IC1201>



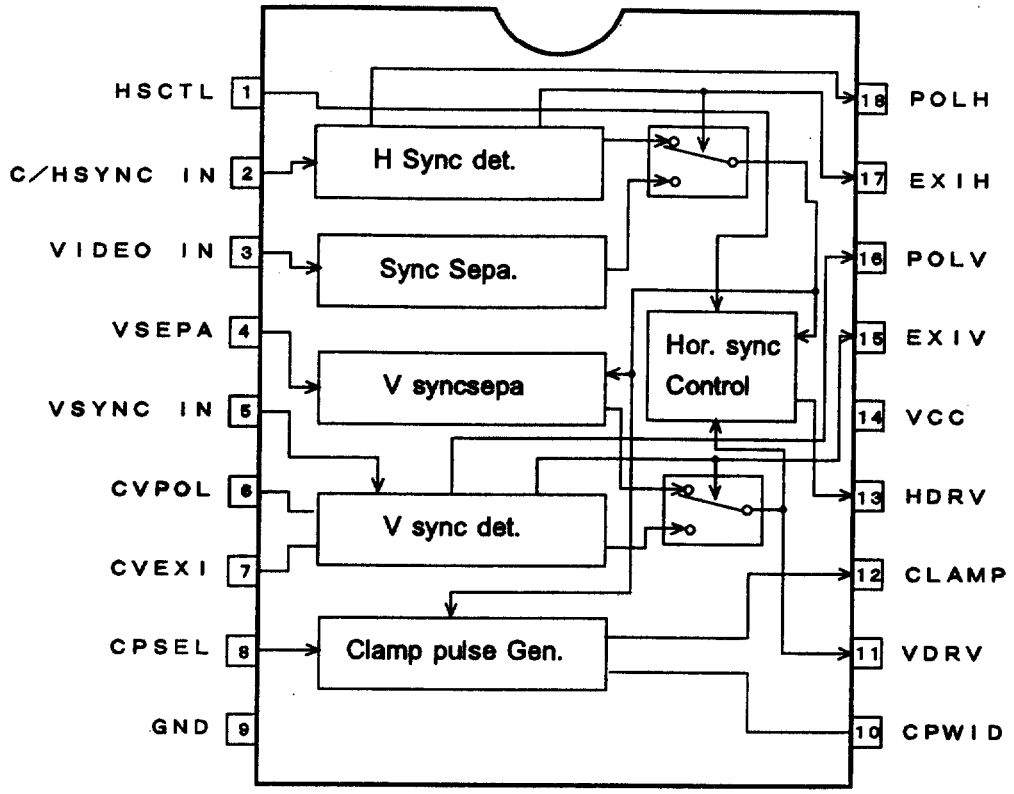
● AD8075ARU <Selector, IC1202>



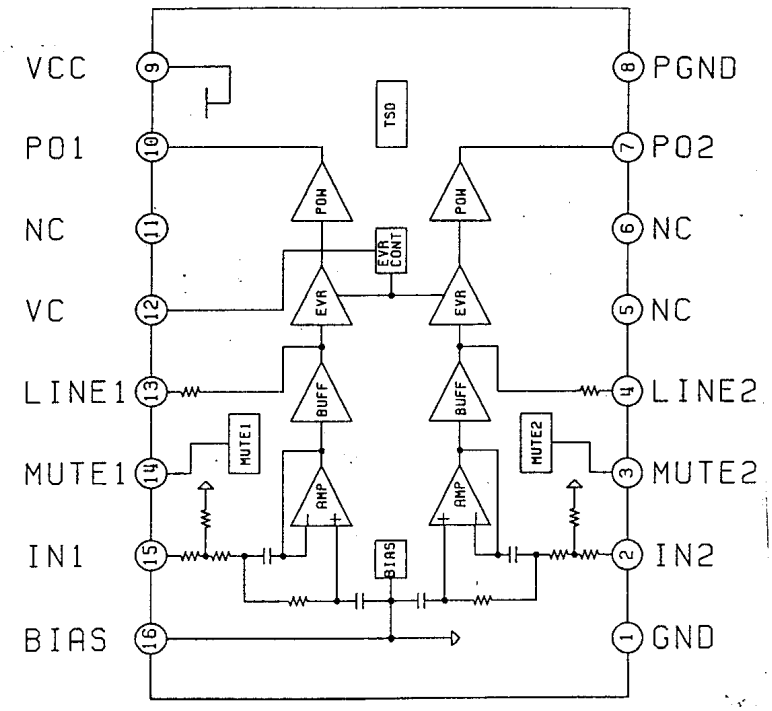
● AD9888 <Analog Flat Panel Interface, IC231>



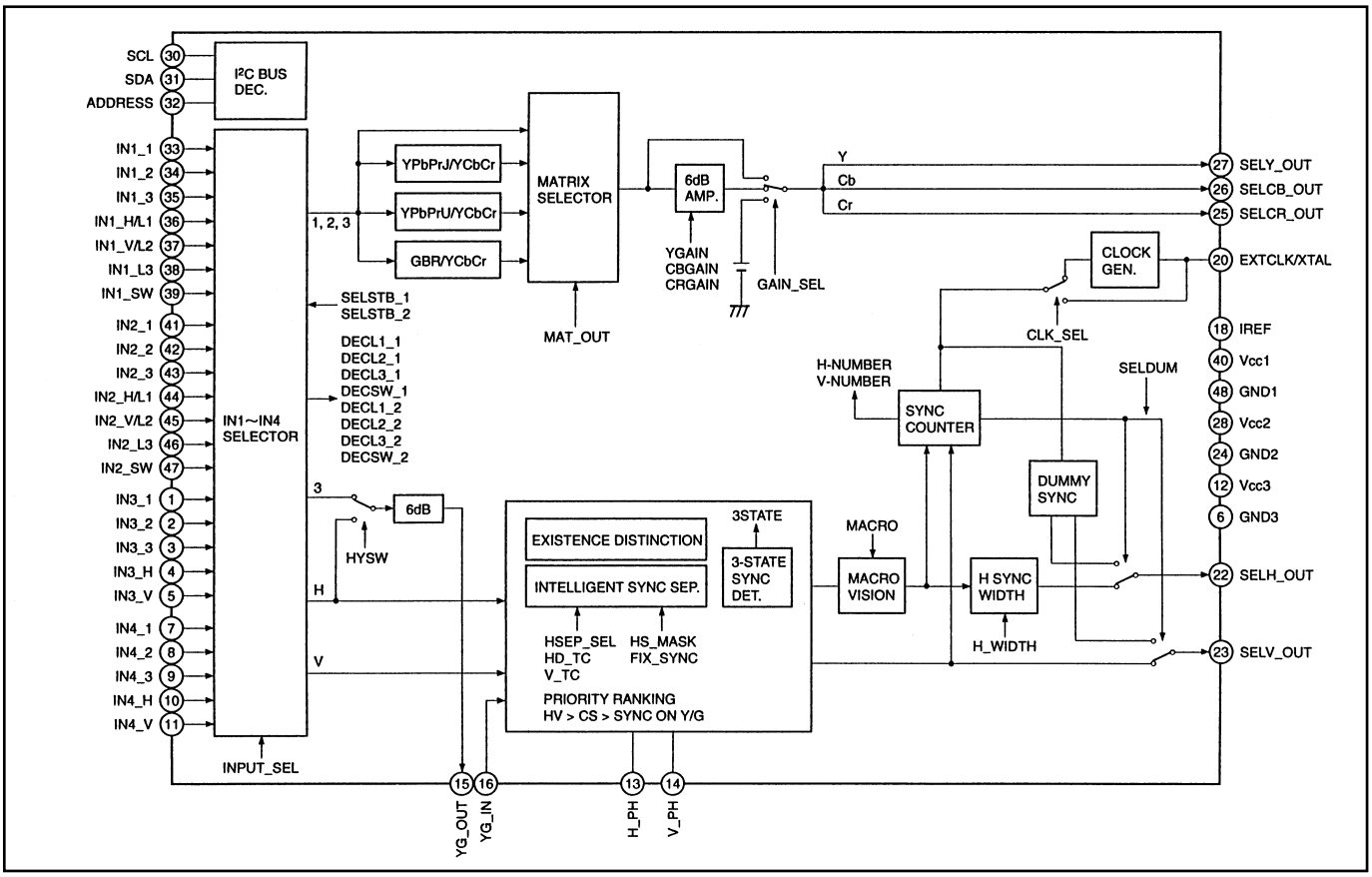
● BA7078AF <Sync Detector, IC5304>



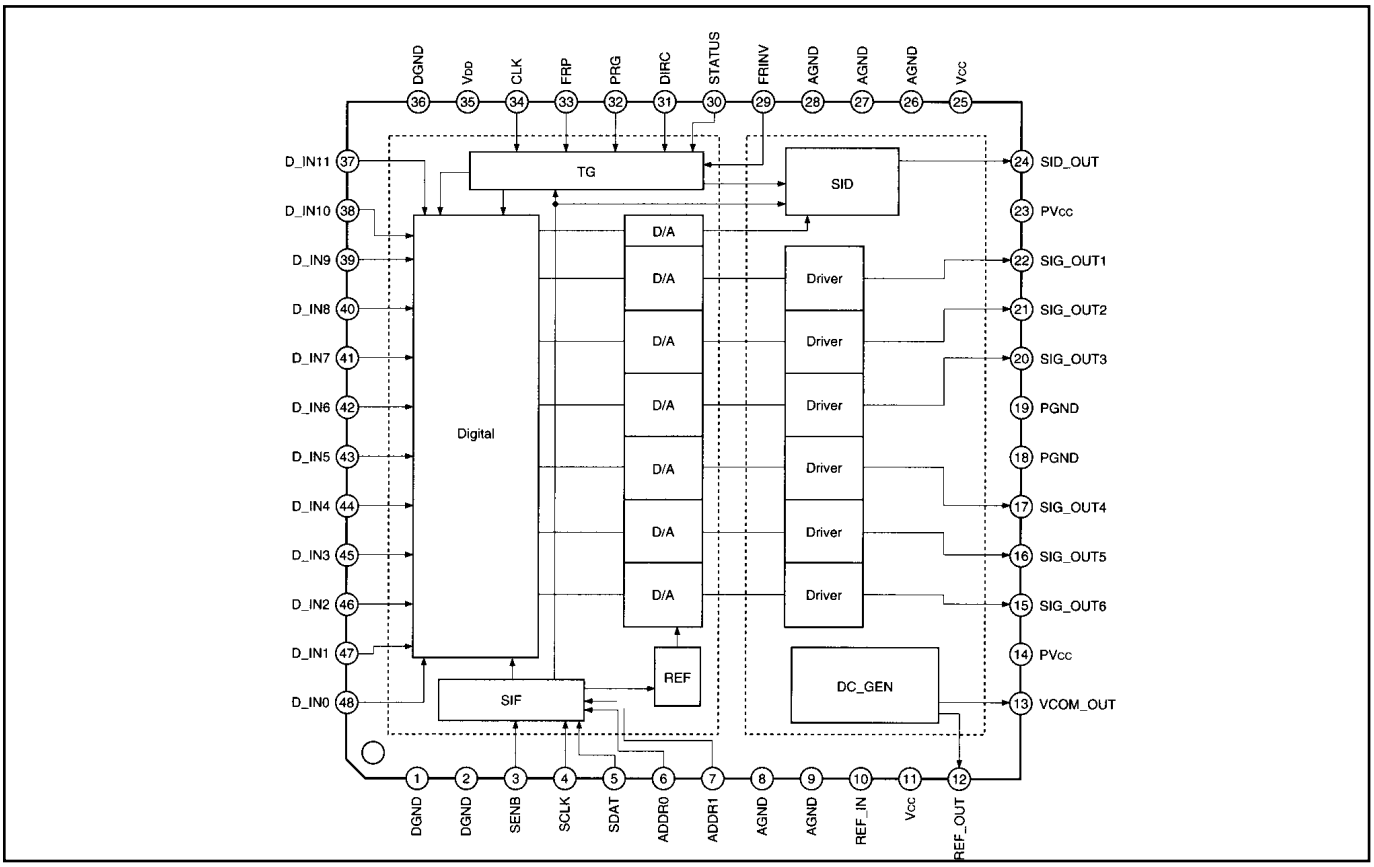
● BH3540 <Volume Control, IC1652>



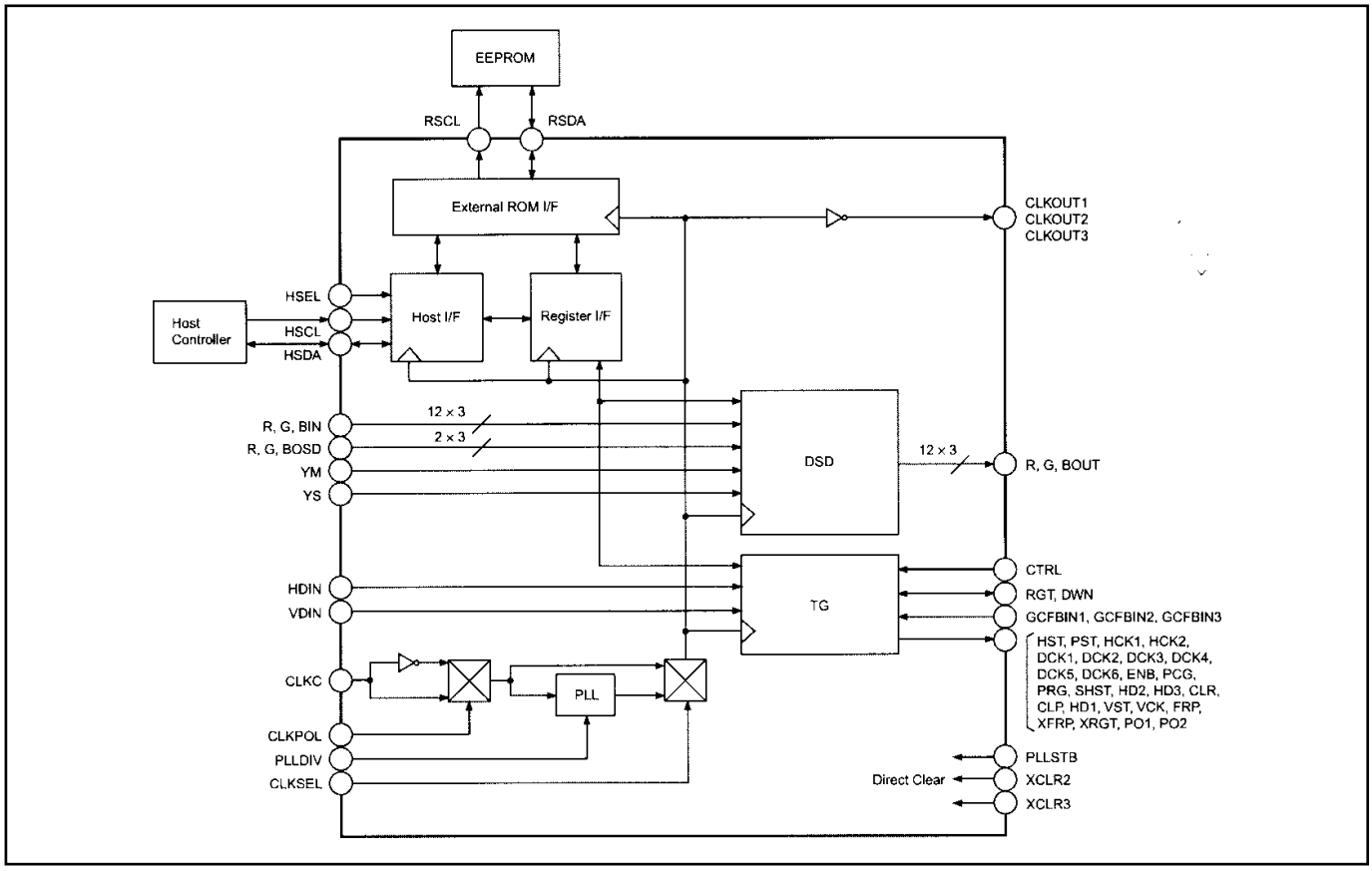
● CXA2151Q <RGB Matrix, IC4101>



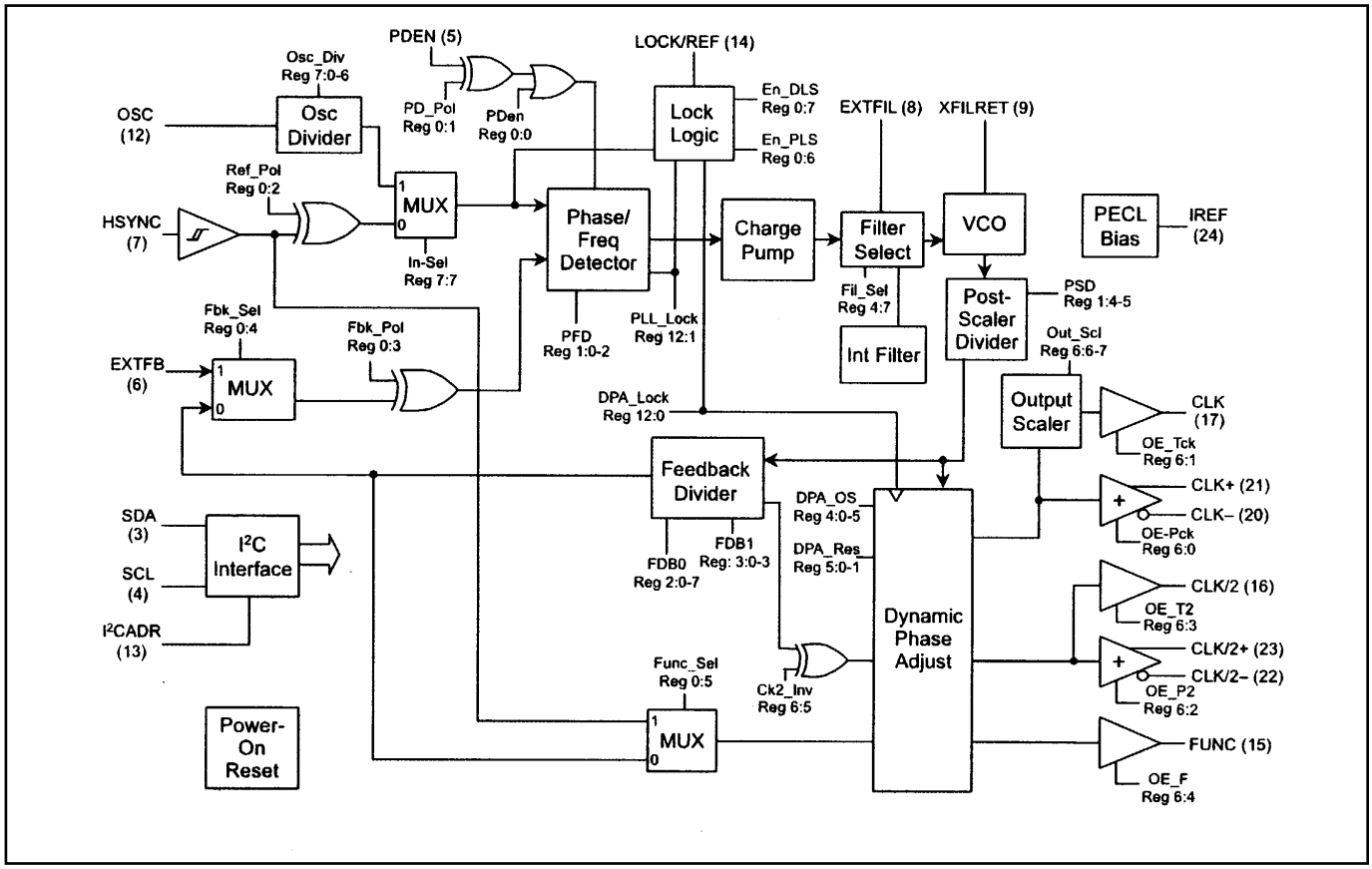
● CXA7004R <LCD Driver, IC501, IC531, IC561, IC1501, IC1531, IC1561>



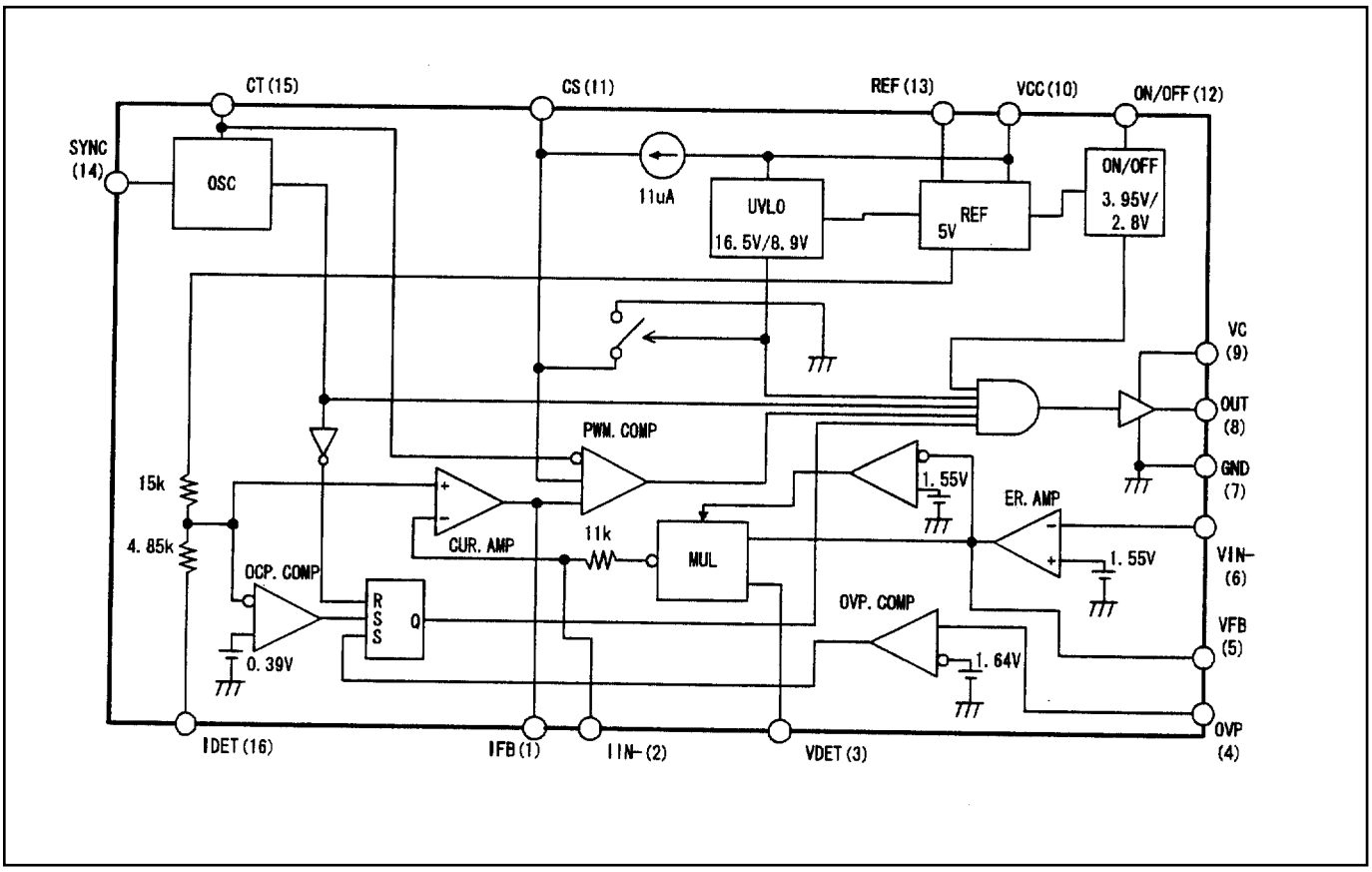
● CXD3531R <Digital Signal Driver & Timing Generator , IC401>



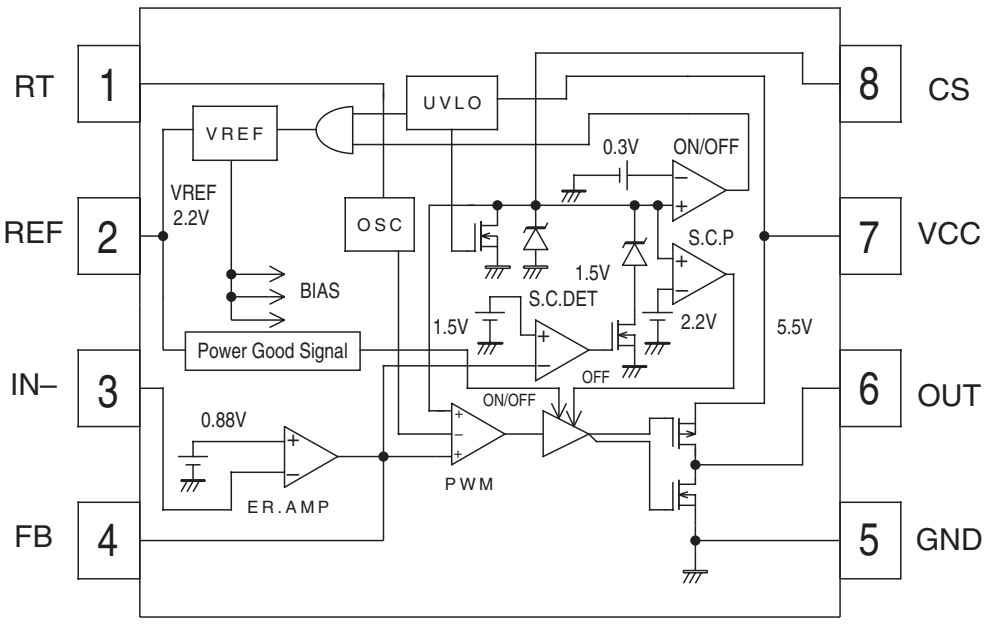
● ICS1523M <Clock Driver, IC4231>



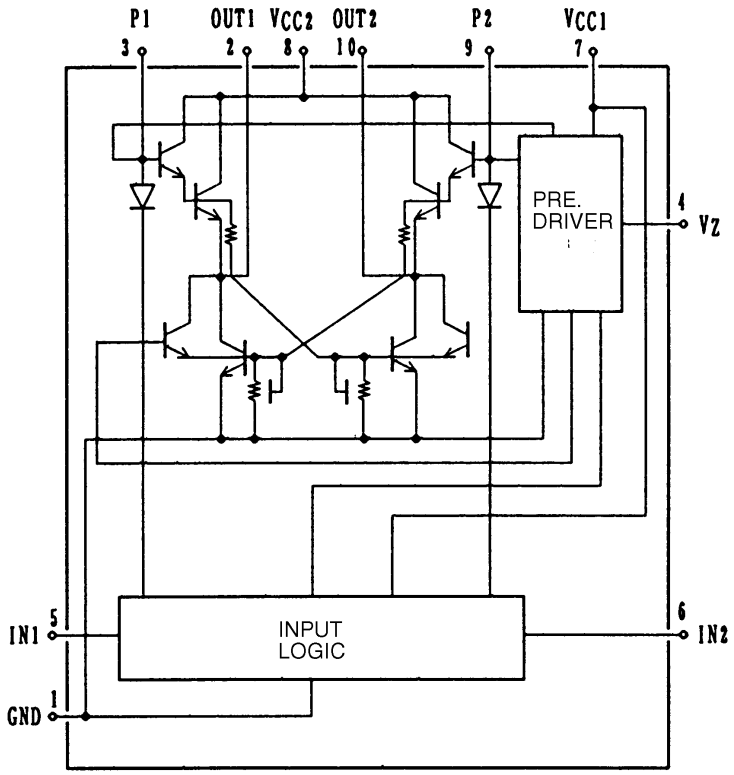
● FA5502M <P. F. Controller, IC601>



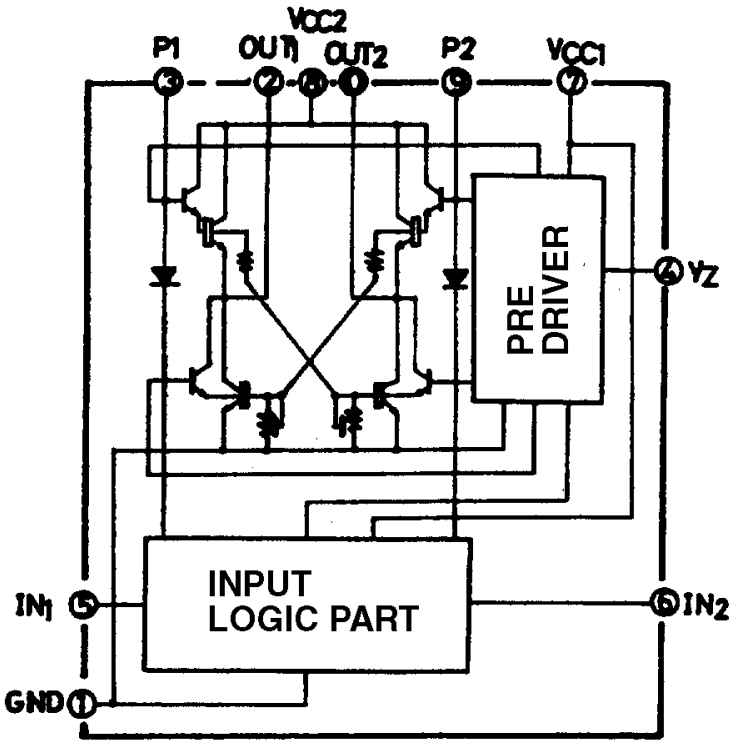
● FA7701V <Switching Power Supply Controller, IC6602, IC6603, IC6616>



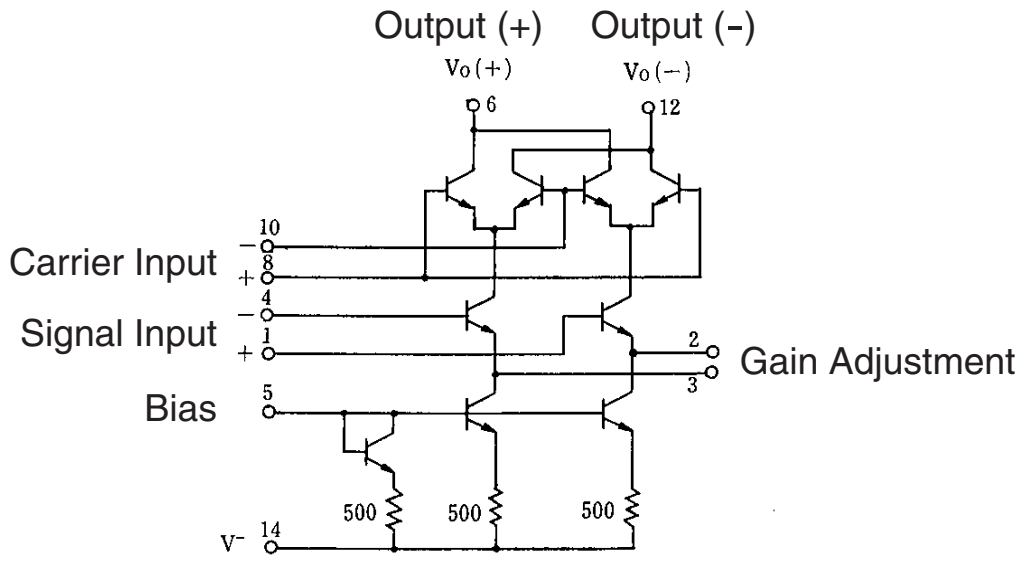
● LB1641 <Motor Drive, IC1602, IC1611>



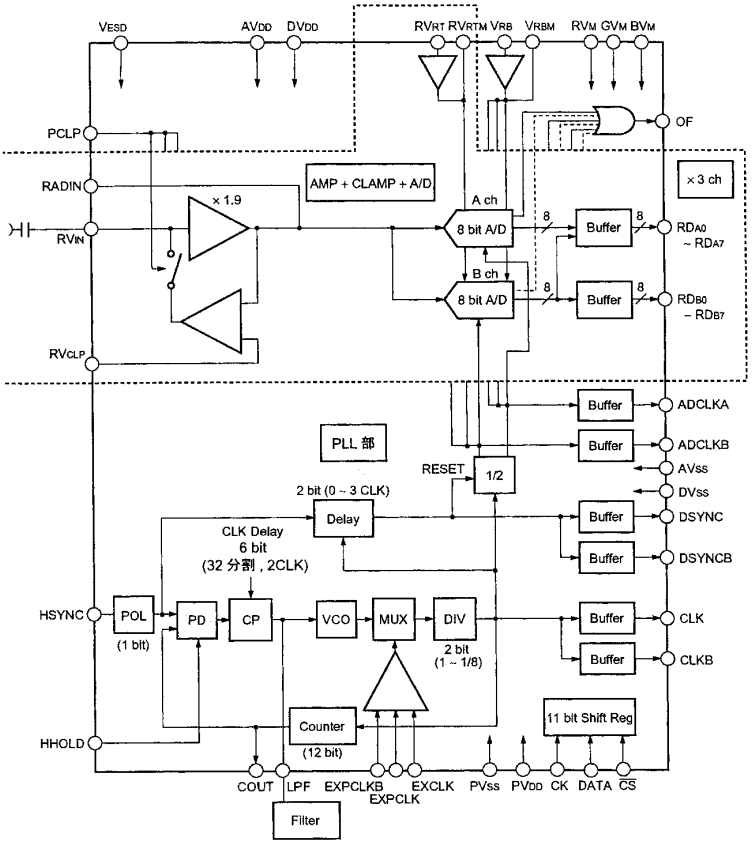
● LB1645 <Motor Drive, IC1601>



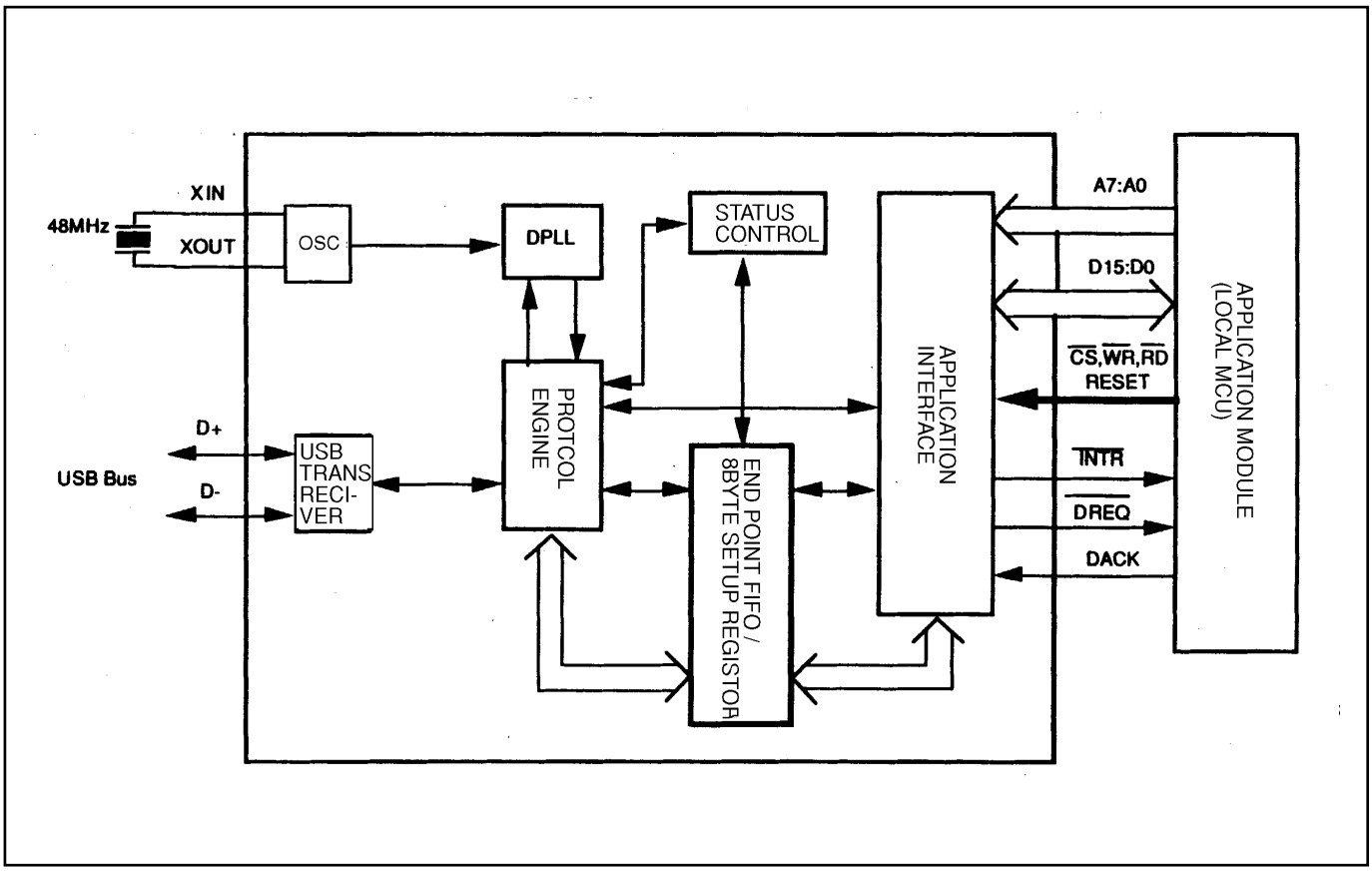
● NJM1496 <Balanced Modulator & Demodulator, IC4501>



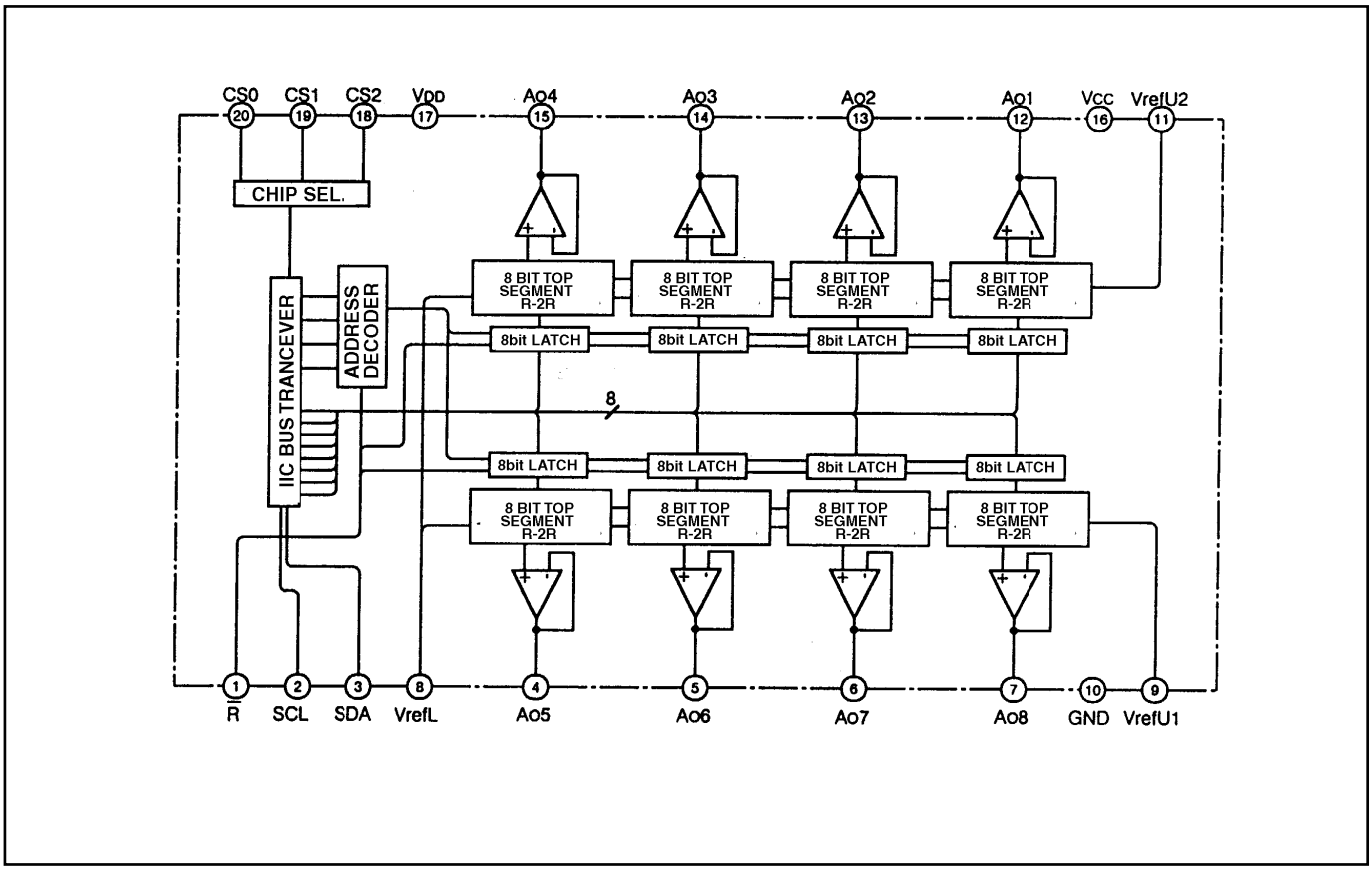
● MB40C348V <A/D Converter for Visual Image, IC2311>



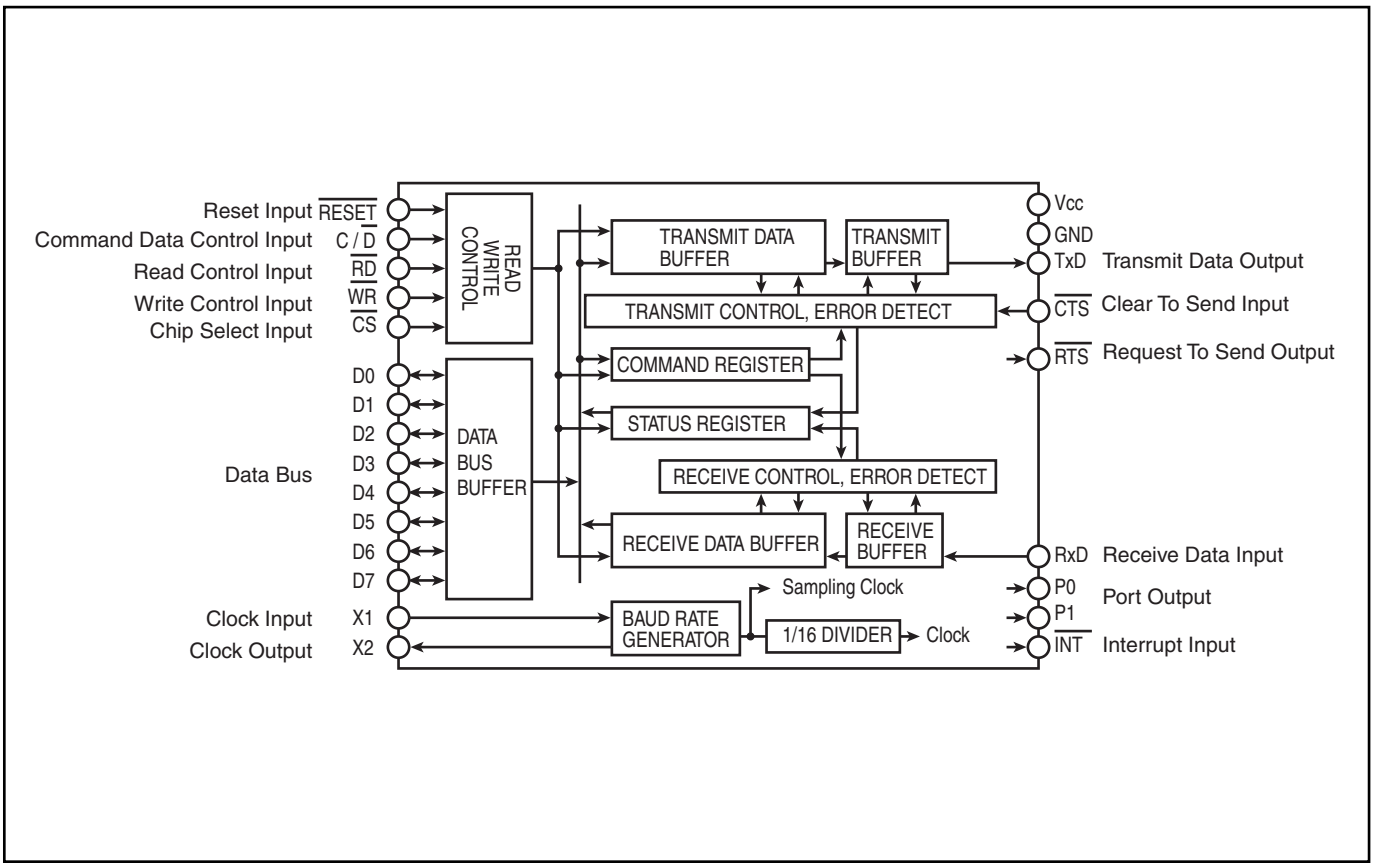
● ML60851 <USB Interface, IC9801>



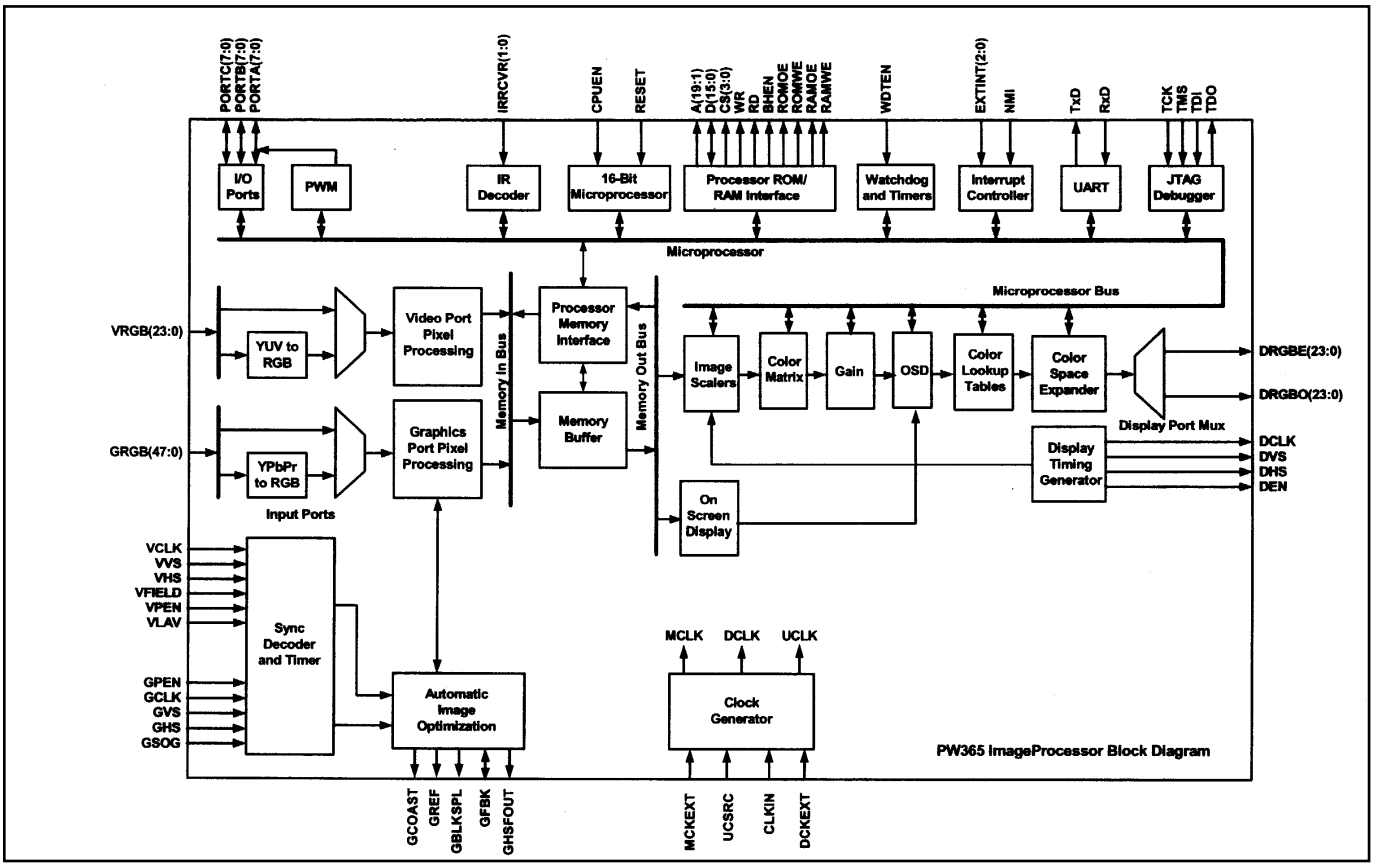
● M62393 <D/A, IC212>, M62399 <D/A, IC7801>


CS0 CS1 CS2 VDD AO4 AO3 AO2 AO1 VCC VrefU2
20 19 18 17 15 14 13 12 16 11
CHIP SEL.
ADDRESS DECODER
IIC BUS TRANCEVER
8 BIT TOP SEGMENT R-2R
8bit LATCH
8
R SCL SDA VrefL AO5 AO6 AO7 AO8 GND VrefU1
1 2 3 8 4 5 6 7 10 9

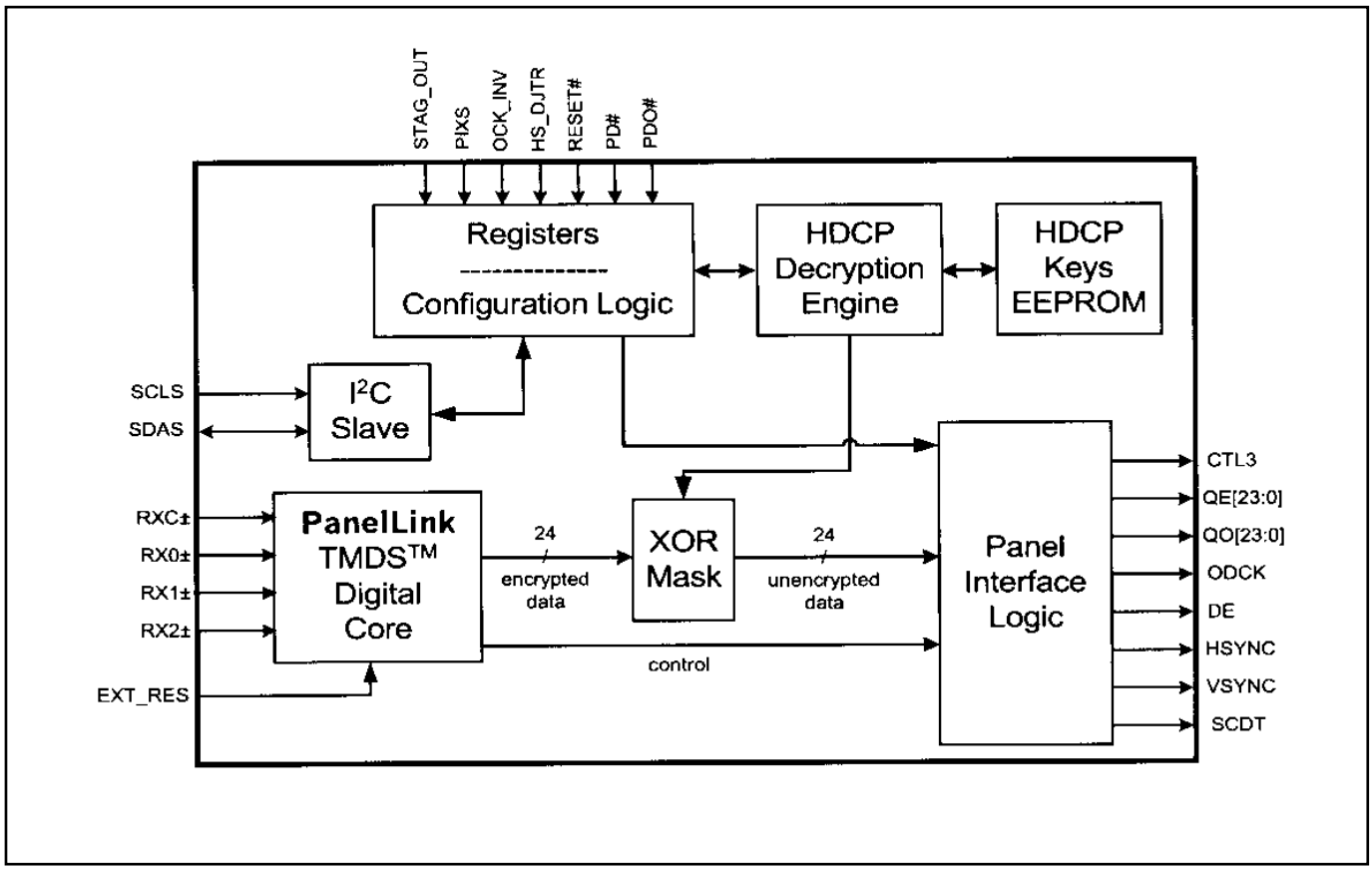
● M66230FP <Serial Data Receiver & Transmitter, IC9851, IC9884>



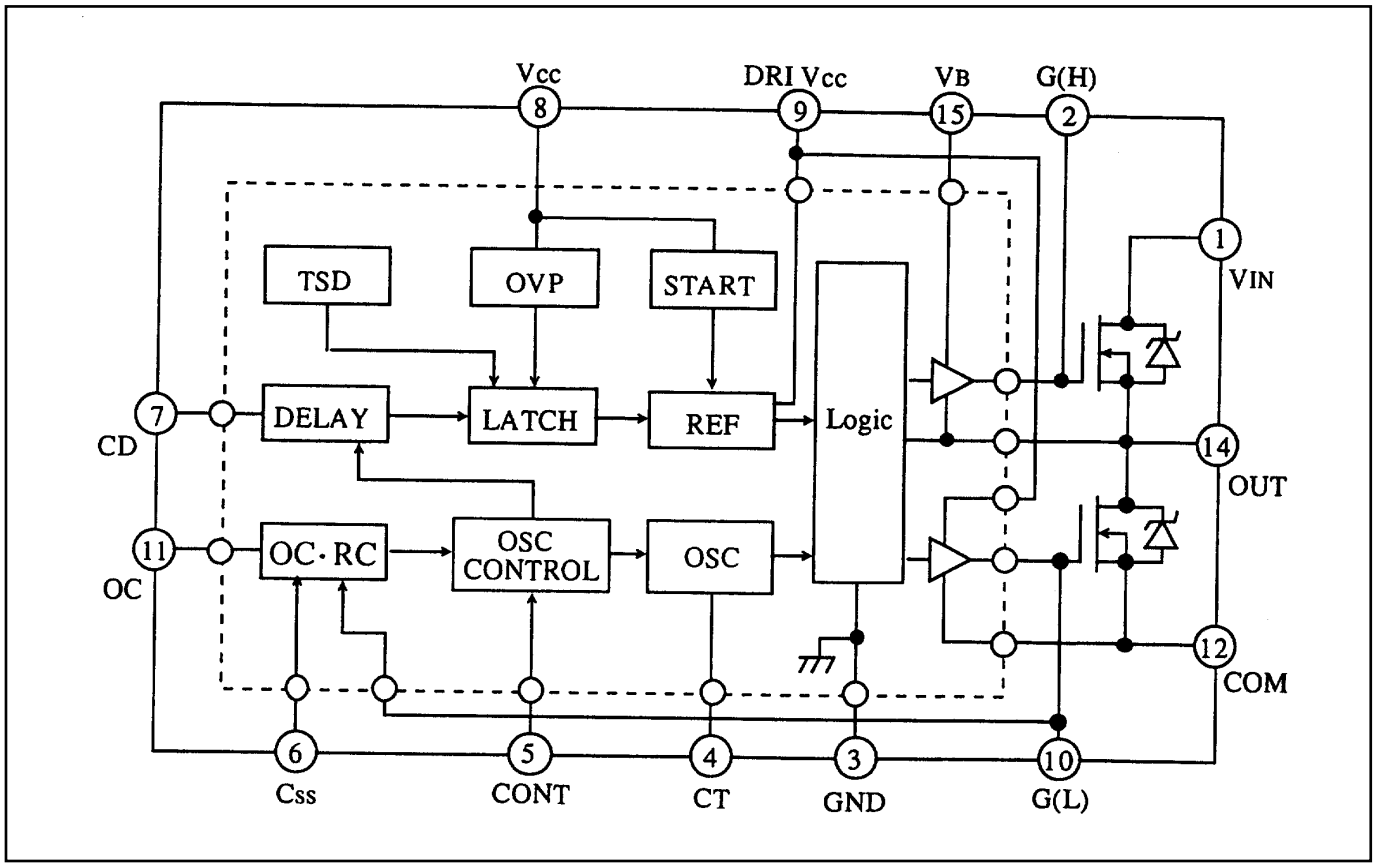
● PW365 <System Control & Scan Converter, IC301>



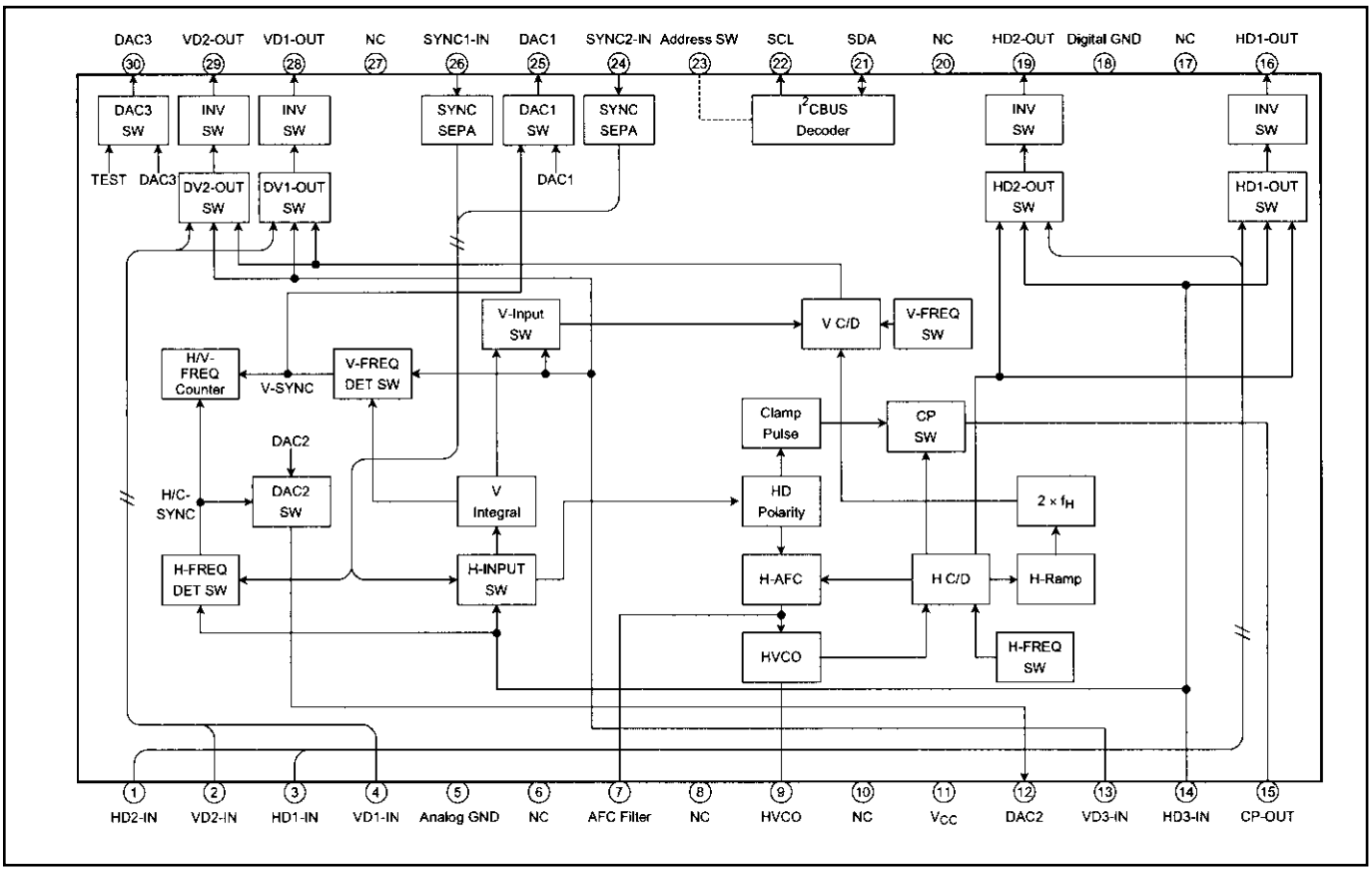
● Sii169CT <DVI Interface supporting HDCP, IC8001>



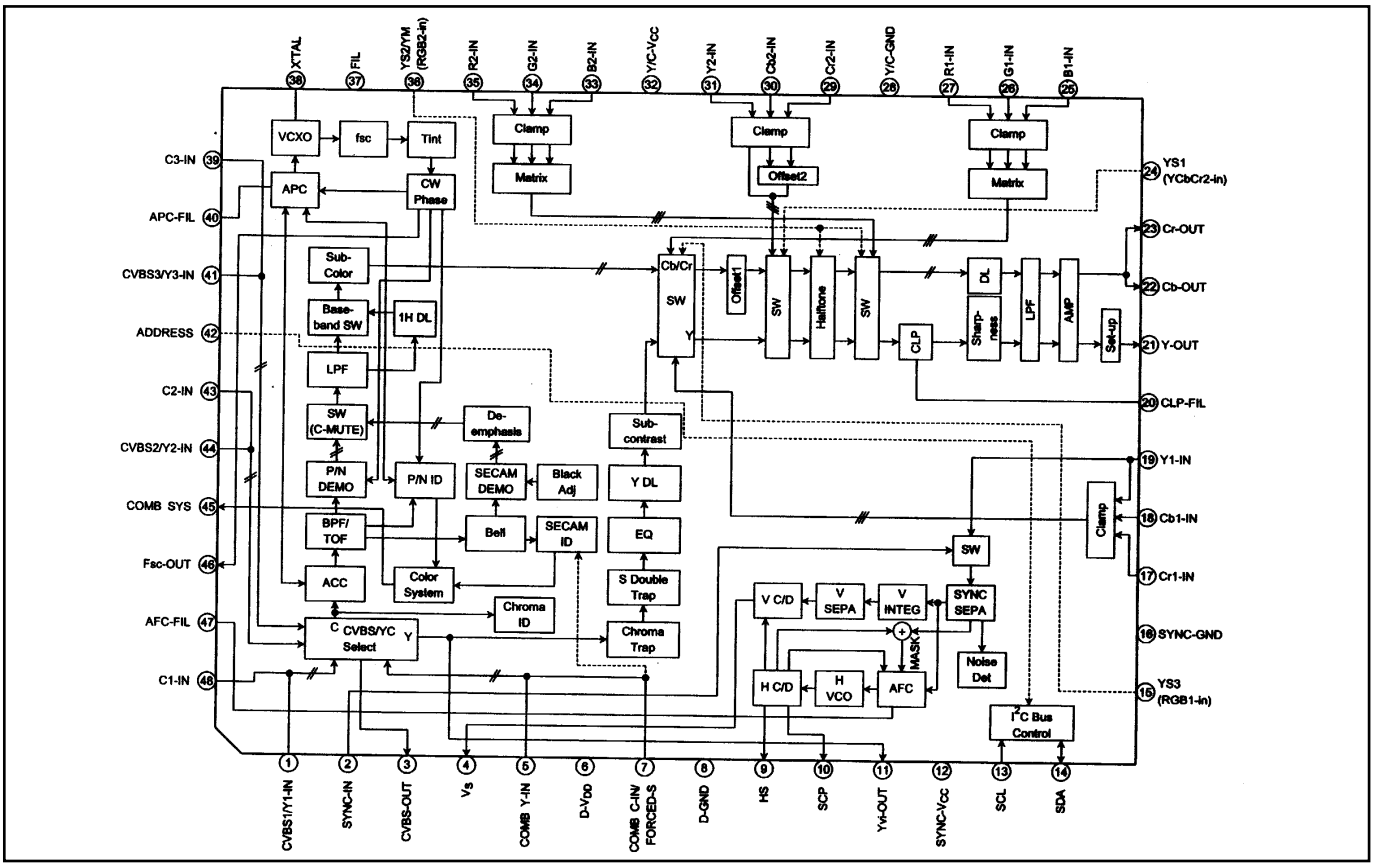
● STR-Z2156 <Power Switching, IC651>



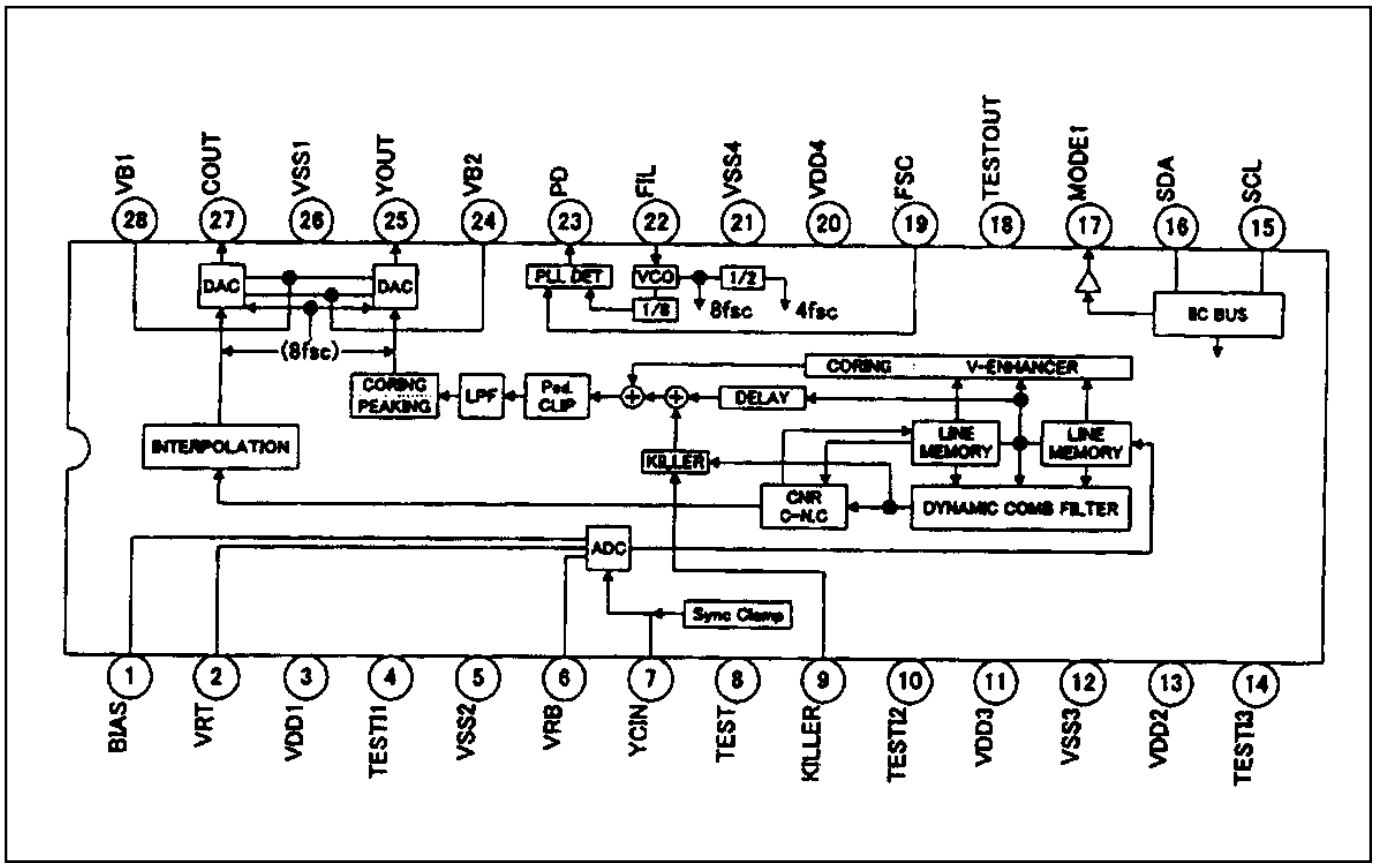
● TA1370FG <Sync Separator, Frequency Counter, IC7301>



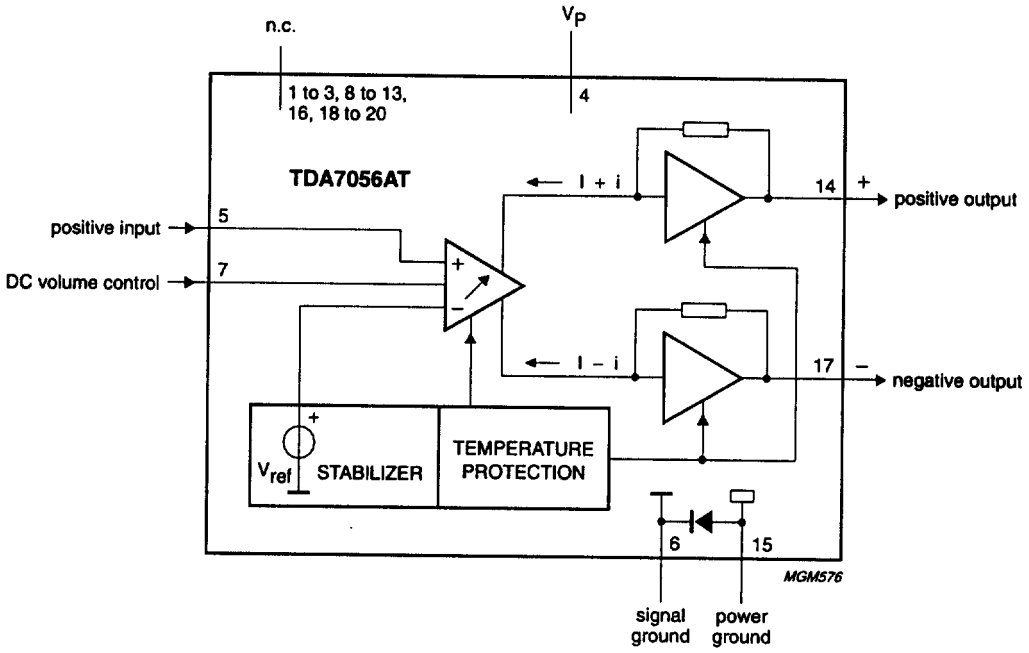
● TB1274AF <Video Decoder, IC3101>



● TC90A69F <3 Line Digital Comb Filter, IC2101>



● TDA7056 <Audio Output, IC1631, IC1632>



■ Electrical Parts List

Product safety should be considered when a component replacement is made in any area of a projector.
Components indicated by a ⚠ mark in this parts list and the circuit diagram show components whose value have special significance to product safety. It is particularly recommended that only parts specified on the following parts list be used for components replacement pointed out by the mark.

● Read Description in the parts list

Read description in the Capacitor and Resistor as follows:

CAPACITOR CERAMIC 100P K 50V

Rated Voltage

Tolerance Symbols:

Less than 10pF

A : Not specified	B : ±0.1pF	C : ±0.25pF
D : ±0.5pF	E : +0 -1pF	F : ±1PF
G : ±2pF	H : +0.1 -0pF	L : +0 -0.1pF
R : ±0.25 -0pF	S : +0-0.25pF	

More than 10pF

A : Not specified	B : ±0.1%	C : ±0.25%
D : ±0.5%	F : ±1%	G : ±2%
H : ±3%	J : ±5%	K : ±10%
L : ±15%	M : ±20%	N : ±30%
P : +100-0%	Q : +30-10%	T : +50-10%
U : +75-10%	V : +20-10%	W : +100-10%
X : +40-20%	Y : +150-10%	Z : +80-20%

Rated value: P=pico farad, U=micro farad

Material:

CERAMIC	Ceramic
MT-PAPER	Metallized Paper
POLYESTER	Polyester
MT-POLYEST	Metallized Polyester
POLYPRO	Polypropylene
MT-POLYPRO	Metallized Polypropylene
COMPO FILM	Composite film
MT-COMPO	Metallized Composite
STYRENE	Styrene
TA-SOLID	Tantalum Oxide Solid Electrolytic
AL-SOLID	Aluminium Solid Electrolytic
ELECT	Aluminum Foil Electrolytic
NP-ELECT	Non-polarised Electrolytic
OS-SOLID	Aluminium Solid with Organic Semiconductive Electrolytic
POS-SOLID	Polymerized Organic Semiconductive
DL-ELECT	Double Layered Electrolytic
PPS-FILM	Polyphenylene Sulfide Film
MT-PPS-FILM	Metalized Polyphenylene Sulfide Film
MT-PEN-FILM	Metalized Polyethylenenaphthalate Film
CAPACITOR	Other

RESISTOR CARBON 4.7K J A 1/4W

Rated Wattage

Performance Symbols:
A: General B: Non flammable Z: Low noise
Other: Temperature coefficient

T: ±10ppm/°C	U: ±25ppm/°C	C: ±50ppm/°C
D: ±100ppm/°C	E: ±200ppm/°C	F: ±250ppm/°C
G: ±350ppm/°C	H: ±1000ppm/°C±10%	W: ±1200ppm/°C±10%
Y: ±1400ppm/°C±10%	J: ±2000ppm/°C±10%	K: ±2400ppm/°C±10%
L: ±2700ppm/°C±10%	M: ±3000ppm/°C±10%	N: ±3300ppm/°C±10%
P: ±3600ppm/°C±10%	Q: ±3900ppm/°C±10%	R: ±4200ppm/°C±10%
S: ±4300ppm/°C±10%	V: ±4500ppm/°C±10%	X: ±8000ppm/°C±10%

Tolerance Symbols:
A: ±0.05% B: ±0.1% C: ±0.25% D: ±0.5%
F: ±1% G: ±2% J: ±5% K: ±10%
M: ±20% P: +5-15% Z: 0 ohm

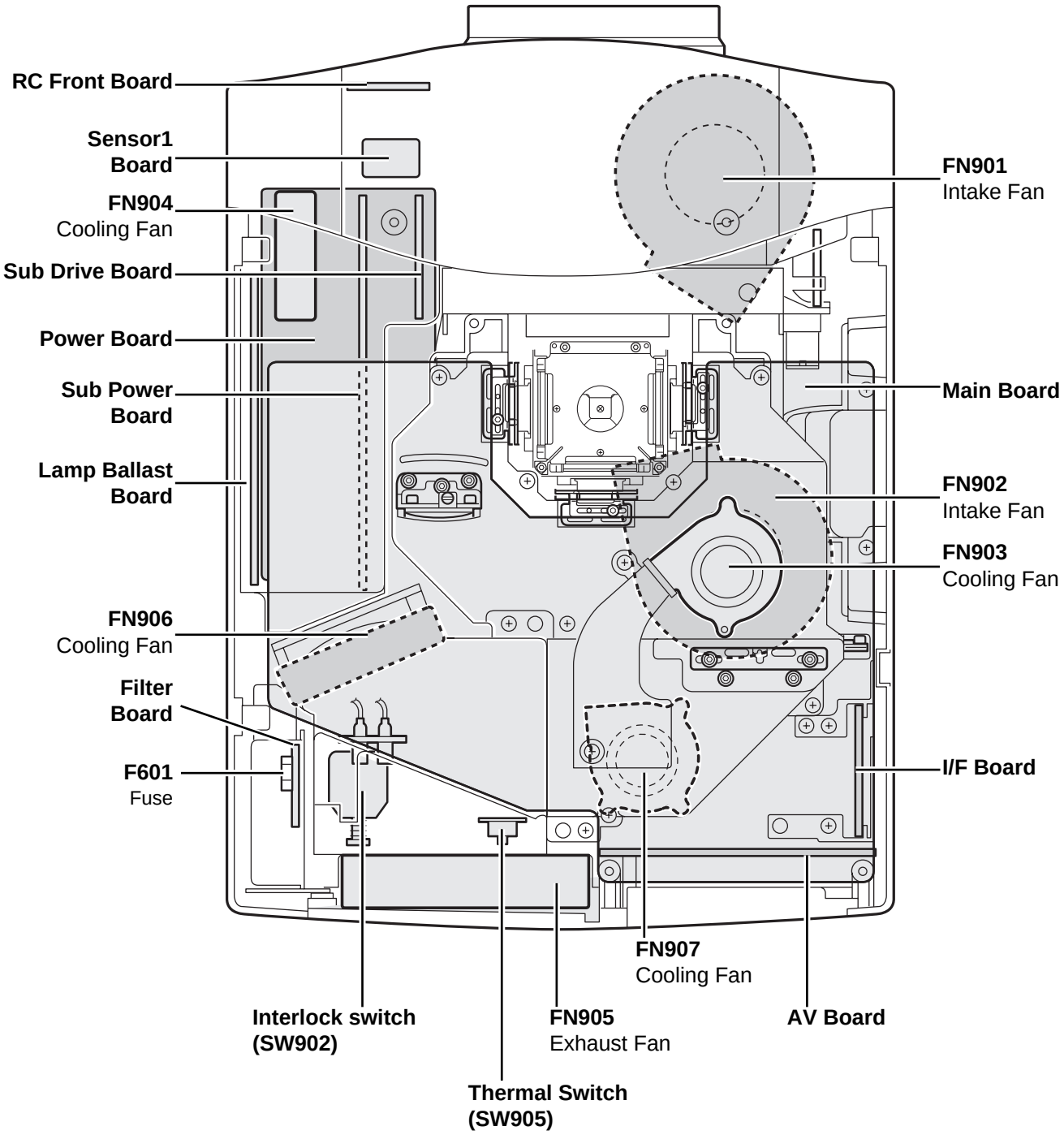
Rated value, ohms:
K: 1,000, M: 1,000,000

Material:

CARBON	Carbon
MT-FILM	Metal Film
OXIDE-MT	Oxide Metal Film
SOLID	Composition
MT-GLAZE	Metal Glaze
WIRE WOUND	Wire Wound
CERAMIC RES.	Ceramic
FUSIBLE RES.	Fusible
RESISTOR	Other

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● OUT OF CIRCUIT BOARD



Key No.	Part No.	Description

ASSEMBLIED BOARDS

⚠	610 293 1815	ASSY,PWB,CONTROL MA8A
⚠	610 293 1839	ASSY,PWB,RC FRONT MA8A
⚠	610 294 8233	ASSY,PWB,SENSOR 1 MA8A
⚠	610 304 4156	ASSY,PWB,MAIN MR3A
⚠	610 305 1710	ASSY,PWB,POWER MR3A
⚠	610 305 1727	ASSY,PWB,SUB POWER MR3A
⚠	610 305 1734	ASSY,PWB,SUB DRIVE MR3A
⚠	610 305 1741	ASSY,PWB,FILTER MR3A
⚠	610 304 8895	ASSY,PWB,A/V MR3A
⚠	610 304 8857	ASSY,PWB,I/F MR3A

OUT OF CIRCUIT BOARDS

⚠	LF901	645 042 4489	UNIT,NOISE FILTER
⚠	LP900	610 306 5977	COMPL,OPTICAL LAMP-MR3A
	L901	645 003 3834	CORE,FERRITE
	L902	645 003 3834	CORE,FERRITE
⚠	A901	645 060 4034	UNIT,BALLAST
⚠	FN901	645 061 7539	MOTOR,FAN DC 13.0W
⚠	FN902	645 061 7539	MOTOR,FAN DC 13.0W
⚠	FN903	645 053 7523	MOTOR,FAN DC 1.68W
⚠	FN904	645 053 7523	MOTOR,FAN DC 1.68W
⚠	FN905	645 061 4897	MOTOR,FAN DC 5.28W
⚠	FN906	645 048 4001	MOTOR,FAN DC 2.4W
⚠	FN907	645 061 4903	MOTOR,FAN DC 2.04W
	SP901	645 047 7584	SPEAKER,8
	SP902	645 047 7584	SPEAKER,8
⚠	SW902	645 031 7743	SWITCH,PUSH 2P-2TX2
⚠	SW905	645 050 3580	SWITCH,THERMAL

CONTROL BOARD

610 293 1815 ASSY,PWB,CONTROL MA8A

CAPACITOR

C6871	403 164 0204	CERAMIC	0.1U Z 25V
C6881	403 164 0204	CERAMIC	0.1U Z 25V
C6891	403 164 0204	CERAMIC	0.1U Z 25V
C6892	403 164 0204	CERAMIC	0.1U Z 25V

RESISTOR

R6871	401 105 2904	MT-GLAZE	22K JA 1/16W
R6872	401 105 1600	MT-GLAZE	15K JA 1/16W
R6873	401 105 6001	MT-GLAZE	5.6K JA 1/16W
R6874	401 105 5301	MT-GLAZE	4.7K JA 1/16W
R6875	401 105 3307	MT-GLAZE	2.7K JA 1/16W
R6876	401 105 4106	MT-GLAZE	3.3K JA 1/16W
R6878	401 105 5202	MT-GLAZE	470 JA 1/16W
R6887	401 105 1501	MT-GLAZE	1.5K JA 1/16W
R6888	401 105 5202	MT-GLAZE	470 JA 1/16W
R6891	401 105 2904	MT-GLAZE	22K JA 1/16W
R6892	401 105 3802	MT-GLAZE	30K JA 1/16W
R6893	401 105 7909	MT-GLAZE	0.000 ZA 1/16W
R6894	401 105 7909	MT-GLAZE	0.000 ZA 1/16W
R6895	401 105 7909	MT-GLAZE	0.000 ZA 1/16W
R6896	401 105 7909	MT-GLAZE	0.000 ZA 1/16W
R6897	401 105 1501	MT-GLAZE	1.5K JA 1/16W
R6898	401 105 5202	MT-GLAZE	470 JA 1/16W

DIODE

D6871	407 223 0501	ZENER DIODE	02DZ12Y(TPH3)
D6872	407 223 0501	ZENER DIODE	02DZ12Y(TPH3)
D6881	407 223 0501	ZENER DIODE	02DZ12Y(TPH3)
D6891	407 223 0501	ZENER DIODE	02DZ12Y(TPH3)
D6892	407 203 7803	LED	SML-210LT T86 M
D6893	407 203 7902	LED	SML-210MT T86 M
D6894	407 203 7803	LED	SML-210LT T86 M
D6895	407 203 7704	LED	SML-210DT T86 L

MISCELLANEOUS

K68A	645 005 6970	PLUG,SIDE-ZR-SM3 9P	
SW6871	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6872	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6873	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6874	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6875	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6876	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6878	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6887	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6888	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6891	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6892	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6897	645 026 2791	SWITCH,PUSH 1P-1TX1	
SW6898	645 026 2791	SWITCH,PUSH 1P-1TX1	

RC FRONT BOARD

610 293 1839 ASSY,PWB,RC FRONT MA8A

CAPACITOR

C2801	403 283 6309	CERAMIC	1U Z 10V
C2802	403 157 6206	CERAMIC	220P K 50V
C2803	403 304 2105	ELECT	47U M 6.3V

RESISTOR

R2801	401 105 0405	MT-GLAZE	100 JA 1/16W
R2802	407 225 0202	DIODE	RB751S-40
R2803	401 105 7909	MT-GLAZE	0.000 ZA 1/16W

MISCELLANEOUS

AU2801	645 034 5029	UNIT,REMOCON RECEIVER	
K28A	645 005 6918	PLUG,SIDE-ZR-SM3 3P	

SENSOR 1 BOARD

610 294 8233 ASSY,PWB,SENSOR 1 MA8A

INTEGRATED CIRCUIT

IC1691	409 481 8602	IC	LM76CHMX-5

CAPACITOR

C1691	403 281 5205	CERAMIC	0.22U Z 16V
C1692	403 155 1609	CERAMIC	33P J 50V
C1693	403 155 1609	CERAMIC	33P J 50V

RESISTOR

R1691	401 105 0405	MT-GLAZE	100 JA 1/16W
R1692	401 105 0306	MT-GLAZE	10 JA 1/16W
R1693	401 105 0306	MT-GLAZE	10 JA 1/16W

MAIN BOARD

610 304 4156 ASSY,PWB,MAIN MR3A

TRANSISTOR

Q1101	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146

Key No.	Part No.	Description
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1141	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1142	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1143	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1144	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1145	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1146	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1147	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1148	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1149	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1151	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1161	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1163	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q141	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q142	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q143	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q144	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q147	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q148	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB

Key No.	Part No.	Description
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q149	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
	405 173 9803	TR 2SC3928A1R
	405 173 9902	TR 2SC3928A1S
Q1851	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1852	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q2101	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q2102	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q2361	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3103	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3111	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q3112	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q3113	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q3161	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3162	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3163	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3301	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q3302	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4501	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4502	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4503	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4504	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4506	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB

Key No.	Part No.	Description
Q4507	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4508	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4541	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4544	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4546	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4554	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4556	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4557	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4651	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4682	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4683	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4801	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4802	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4803	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4804	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4805	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4807	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4808	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5801	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5802	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0

Key No.	Part No.	Description
Q7821	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q7841	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q7861	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q7881	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q7921	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q8036TM	405 045 8705	TR 2SK536-TB
Q8037TM	405 045 8705	TR 2SK536-TB
Q8038	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q8039	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q8041	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q8042TM	405 045 8705	TR 2SK536-TB
Q9801	405 134 5905	TR 2SA1037AK-T146-R
Q9802	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q9803	405 045 8705	TR 2SK536-TB
Q9804	405 045 8705	TR 2SK536-TB
INTEGRATED CIRCUIT		
IC1101	409 515 9803	IC UPD64083GF-3BA
IC1102	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC1141	409 434 8109	IC TC4053BFT-(EL)
IC1161	409 499 1701	IC PQ025EZ01ZP
	409 461 7700	IC PQ2TZ15
IC1401	409 339 3605	IC 24LC16BT/SN-T
IC141	410 300 4804	IC MM1031XM
IC1431	409 499 1800	IC PQ018EZ01ZP
IC1451	409 534 1703	IC SI-3025LSA-TL
IC1501	409 545 7206	IC CXA7004R
IC1531	409 545 7206	IC CXA7004R
IC1561	409 545 7206	IC CXA7004R
IC1801	409 475 3705	IC M66500FP
IC1802	410 364 6905	IC TC74ACT138FT-EL
IC1803	410 364 6905	IC TC74ACT138FT-EL
IC1851	409 359 1100	IC TC7W240FU-TE12L
IC1871	409 481 8602	IC LM76CHMX-5
IC1872	409 481 8602	IC LM76CHMX-5
IC1881	409 301 5309	IC TC7S32FU-TE85L
IC201	409 470 2604	IC AD8183ARU
IC2101	409 504 5007	IC TC90A69F
IC211	409 357 6602	IC LT1260CS
IC212	409 458 3401	IC M62393FP
IC213	410 343 7008	IC SN74AHCT1G14DBVR
IC231	409 520 4305	IC AD9888KS-140
IC2311	410 429 8202	IC MB40C348VPFV
IC234	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC2341	409 357 6602	IC LT1260CS
IC235	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC2351	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC2353	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC236	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC2401	409 251 0300	IC TC7W04F-(TE12L)
IC2402	410 471 2906	IC TC74HC4040AF(EL)
IC2403	409 327 6700	IC TC7W02FU-TE12L
IC2404	409 301 5507	IC TC7S08FU(TE85L)
IC2501	409 343 0201	IC LT1206CS8
IC2502	409 394 9307	IC TC7SH14FU(TE85L)
IC2531	409 343 0201	IC LT1206CS8
IC2532	409 394 9307	IC TC7SH14FU(TE85L)
IC2562	409 394 9307	IC TC7SH14FU(TE85L)
IC301	409 501 8308	IC PW365-10U
IC304	409 339 3605	IC 24LC16BT/SN-T
IC306	409 301 5309	IC TC7S32FU-TE85L
IC3101	409 504 9005	IC TB1274AF
IC3102TM	409 416 6505	IC BA05FP-E2
IC3103TM	409 416 6505	IC BA05FP-E2
IC3211	410 321 8300	IC TC74VCX16244FT
IC3212	410 321 8300	IC TC74VCX16244FT
IC3213	410 321 8300	IC TC74VCX16244FT
IC3214	410 362 6501	IC TC74LCX541FT
IC3224	410 362 6501	IC TC74LCX541FT
IC3251	410 362 6501	IC TC74LCX541FT
IC341	410 352 8508	IC IDT71V016S15PHTR
	410 397 0406	IC IC61LV6416-15T
IC351	410 499 7105	IC MBM29LV800TA90C208A
IC361	409 501 9107	IC ICS512MT
IC362	409 501 9107	IC ICS512MT
IC391	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC392	409 534 1703	IC SI-3025LSA-TL
IC401	409 545 7305	IC CXD3531R
IC4201	410 426 8106	IC TC240C4FTB-C006(O)
IC4231	409 444 8700	IC ICS1523M-ER
IC4251	410 401 7506	IC TC74VCX16374FT
IC4261	410 401 7506	IC TC74VCX16374FT
IC4271	410 401 7506	IC TC74VCX16374FT

Key No.	Part No.	Description
IC4281	410 362 6501	IC TC74LCX541FT
IC431	410 356 7507	IC SN74HCT244PWR
IC432	410 356 7507	IC SN74HCT244PWR
IC4501	409 545 7404	IC NJM1496V
IC4502	410 337 0503	IC TC74LCX14FT
IC4503	409 323 8906	IC TC4W53FU(TE12L)
IC451	410 386 1902	IC TC74VCX125FT
IC4521	409 461 7304	IC AD8057ART
IC4531	409 434 8109	IC TC4053BFT-(EL)
IC4541	410 348 7409	IC TC74LCX125FT(EL)
IC4551	409 461 7304	IC AD8057ART
IC4552	409 461 7304	IC AD8057ART
IC4553	409 461 7304	IC AD8057ART
IC4801	409 416 6406	IC BA033FP-E2
	409 410 1001	IC UPC2933T-E1
IC481	410 386 1902	IC TC74VCX125FT
IC4811	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4821	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4831	410 365 5600	IC SN74LVCC4245APWR
IC4841	410 365 5600	IC SN74LVCC4245APWR
IC4851	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4861	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC4891	409 404 7200	IC TC7SET00FU-(TE85L)
IC501	409 545 7206	IC CXA7004R
IC531	409 545 7206	IC CXA7004R
IC561	409 545 7206	IC CXA7004R
IC5801	410 362 6600	IC TC74ACT541FT
IC5831	410 362 6600	IC TC74ACT541FT
IC5861	410 362 6600	IC TC74ACT541FT
IC5881	410 362 6600	IC TC74ACT541FT
IC6301	410 365 4603	IC MS82V16520-8AGA
IC6302	410 365 4603	IC MS82V16520-8AGA
IC6303	410 365 4603	IC MS82V16520-8AGA
IC6304	410 365 4603	IC MS82V16520-8AGA
IC7801	409 428 9600	IC M62399FP
IC7821	409 461 7809	IC PQ20WZ11
IC7841	409 461 7809	IC PQ20WZ11
IC7843	409 301 5309	IC TC7S32FU-TE85L
IC7861	409 461 7809	IC PQ20WZ11
IC7881	409 461 7809	IC PQ20WZ11
IC8001	NOT SERVICE PARTS	IC SII169CT100
IC801	410 484 2009	IC HD64F7045F28-C291
IC802	409 344 1900	IC MN1382-Q-TX
IC803	410 499 8201	IC MBM29F160BE-90-C197A
IC8031	409 416 6406	IC BA033FP-E2
IC804	410 473 9200	IC CY7C1041B-15ZC
IC805	409 438 5609	IC TC74ACT08FT
IC8071	409 434 8109	IC TC4053BFT-(EL)
IC808	409 339 3605	IC 24LC16BT/SN-T
IC8081	409 487 5803	IC 24C01CT/SN
IC8091	409 558 7200	IC 24C02CT/SN
IC8092	409 434 8109	IC TC4053BFT-(EL)
IC811	409 155 8006	IC TC7S04F-TE85L
IC812	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC813	409 152 5404	IC TC7S08F-TE85L
IC814	410 362 6501	IC TC74LCX541FT
IC815	410 362 6501	IC TC74LCX541FT
IC816	410 362 6600	IC TC74ACT541FT
IC8611	409 534 1703	IC SI-3025LSA-TL
IC9401	409 511 2006	IC JS1110074
IC9402	410 457 4207	IC EM638325TS-6
IC9405	409 506 0406	IC M62392FP
IC9451	410 325 4605	IC TC74LCX244FT
	410 325 4704	IC HD74LVC244AT
IC9501	410 468 8706	IC UPD65943GC-100-7EA
IC9801	409 468 8908	IC ML60851CTB
	409 521 4502	IC ML60851DTB
IC9822	409 336 3202	IC TC7SH02FU(TE85L)
IC9851	409 418 8606	IC M66230FP-200D
IC9882	410 356 8009	IC SN74LV14APWR
IC9883	410 471 3002	IC TC74VHC574FT
IC9884	409 418 8606	IC M66230FP-200D
IC9931	409 404 6302	IC M62320FP
CAPACITOR		
C1101	403 164 0204	CERAMIC 0.1U Z 25V
C1102	403 164 0204	CERAMIC 0.1U Z 25V
C1103	403 164 0204	CERAMIC 0.1U Z 25V
C1105	403 321 2607	ELECT 10U M 16V
C1106	403 164 0204	CERAMIC 0.1U Z 25V
C1107	403 164 0204	CERAMIC 0.1U Z 25V
C1108	403 164 0204	CERAMIC 0.1U Z 25V
C1109	403 164 0204	CERAMIC 0.1U Z 25V
C1111	403 321 2607	ELECT 10U M 16V
C1112	403 164 0204	CERAMIC 0.1U Z 25V
C1113	403 164 0204	CERAMIC 0.1U Z 25V
C1114	403 164 0204	CERAMIC 0.1U Z 25V
C1115	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C1116	403 304 3102	ELECT 22U M 16V
C1117	403 164 0204	CERAMIC 0.1U Z 25V
C1118	403 323 1301	CERAMIC 0.47U Z 10V
C1119	403 164 0204	CERAMIC 0.1U Z 25V
C1121	403 323 1301	CERAMIC 0.47U Z 10V
C1122	403 304 2105	ELECT 47U M 6.3V
C1123	403 145 9905	CERAMIC 22P J 50V
C1124	403 145 9905	CERAMIC 22P J 50V
C1125	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1126	403 164 0204	CERAMIC 0.1U Z 25V
C1127	403 155 1302	CERAMIC 150P J 50V
C1128	403 155 1302	CERAMIC 150P J 50V
C1129	403 215 2201	CERAMIC 0.01U K 50V
C1131	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1132	403 164 0204	CERAMIC 0.1U Z 25V
C1133	403 321 2607	ELECT 10U M 16V
C1134	403 164 0204	CERAMIC 0.1U Z 25V
C1135	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C1136	403 322 7809	ELECT 220U M 6.3V
	403 349 4706	ELECT 220U M 6.3V
C1137	403 323 1301	CERAMIC 0.47U Z 10V
C1141	403 164 0204	CERAMIC 0.1U Z 25V
C1142	403 149 9208	CERAMIC 0.01U Z 50V
C1143	403 304 3300	ELECT 47U M 16V
C1144	403 164 0204	CERAMIC 0.1U Z 25V
C1145	403 321 2607	ELECT 10U M 16V
C1146	403 283 6309	CERAMIC 1U Z 10V
C1148	403 164 0204	CERAMIC 0.1U Z 25V
C1162	403 139 7306	CERAMIC 18P J 50V
C1163	403 157 3106	CERAMIC 56P J 50V
C1165	403 266 8108	NP-ELECT 1U M 50V
C1401	403 304 1801	ELECT 100U M 6.3V
	403 373 7704	ELECT 100U M 6.3V
C1402	403 164 0204	CERAMIC 0.1U Z 25V
C1403	403 164 0204	CERAMIC 0.1U Z 25V
C141	403 162 6208	ELECT 1U M 50V
C142	403 175 4802	NP-ELECT 10U M 10V
C143	403 164 0204	CERAMIC 0.1U Z 25V

Key No.	Part No.	Description	Key No.	Part No.	Description
C144	403 321 2607	ELECT 10U M 16V	C2110TM	403 093 6407	OS-SOLID 100U M 10V
C145	403 283 6309	CERAMIC 1U Z 10V	C2111	403 304 2105	ELECT 47U M 6.3V
C1451	403 304 1801	ELECT 100U M 6.3V	C2112	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C2113	403 304 2105	ELECT 47U M 6.3V
C1452	403 164 0204	CERAMIC 0.1U Z 25V	C2114	403 164 0204	CERAMIC 0.1U Z 25V
C1453	403 304 1801	ELECT 100U M 6.3V	C2116	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C2117	403 304 2105	ELECT 47U M 6.3V
C1454	403 164 0204	CERAMIC 0.1U Z 25V	C2118	403 164 0204	CERAMIC 0.1U Z 25V
C146	403 164 0204	CERAMIC 0.1U Z 25V	C2119	403 164 0204	CERAMIC 0.1U Z 25V
C147	403 304 3300	ELECT 47U M 16V	C2121	403 305 9905	CERAMIC 680P J 25V
C150	403 304 3300	ELECT 47U M 16V	C2122	403 149 9208	CERAMIC 0.01U Z 50V
C1501	403 304 3300	ELECT 47U M 16V	C2123	403 149 9208	CERAMIC 0.01U Z 50V
C1502	403 164 0204	CERAMIC 0.1U Z 25V	C2127	403 164 0204	CERAMIC 0.1U Z 25V
C1503	403 304 3300	ELECT 47U M 16V	C213	403 157 2505	CERAMIC 27P J 50V
C1504	403 164 0204	CERAMIC 0.1U Z 25V	C217	403 157 2505	CERAMIC 27P J 50V
C1505	403 164 0204	CERAMIC 0.1U Z 25V	C219	403 157 2505	CERAMIC 27P J 50V
C1506	403 164 0204	CERAMIC 0.1U Z 25V	C227	403 322 7809	ELECT 220U M 6.3V
C1507	403 164 0204	CERAMIC 0.1U Z 25V		403 349 4706	ELECT 220U M 6.3V
C151	403 283 6309	CERAMIC 1U Z 10V	C228	403 283 6309	CERAMIC 1U Z 10V
C152	403 351 4206	ELECT 1U M 50V	C229	403 322 7809	ELECT 220U M 6.3V
C1531	403 304 3300	ELECT 47U M 16V		403 349 4706	ELECT 220U M 6.3V
C1532	403 164 0204	CERAMIC 0.1U Z 25V	C230	403 283 6309	CERAMIC 1U Z 10V
C1533	403 304 3300	ELECT 47U M 16V	C2307	403 267 0804	NP-ELECT 47U M 6.3V
C1534	403 164 0204	CERAMIC 0.1U Z 25V	C2308	403 267 0804	NP-ELECT 47U M 6.3V
C1535	403 164 0204	CERAMIC 0.1U Z 25V	C2309	403 267 0804	NP-ELECT 47U M 6.3V
C1536	403 164 0204	CERAMIC 0.1U Z 25V	C231	403 149 9208	CERAMIC 0.01U Z 50V
C1537	403 164 0204	CERAMIC 0.1U Z 25V	C2314	403 164 0204	CERAMIC 0.1U Z 25V
C1561	403 304 3300	ELECT 47U M 16V	C2315	403 164 0204	CERAMIC 0.1U Z 25V
C1562	403 164 0204	CERAMIC 0.1U Z 25V	C2316	403 283 6309	CERAMIC 1U Z 10V
C1563	403 304 3300	ELECT 47U M 16V	C2317	403 283 6309	CERAMIC 1U Z 10V
C1564	403 164 0204	CERAMIC 0.1U Z 25V	C2318	403 283 6309	CERAMIC 1U Z 10V
C1565	403 164 0204	CERAMIC 0.1U Z 25V	C2319	403 283 6309	CERAMIC 1U Z 10V
C1566	403 164 0204	CERAMIC 0.1U Z 25V	C232	403 149 9208	CERAMIC 0.01U Z 50V
C1567	403 164 0204	CERAMIC 0.1U Z 25V	C2324	403 283 6309	CERAMIC 1U Z 10V
C165	403 113 3805	CERAMIC 1000P K 50V	C2325	403 283 6309	CERAMIC 1U Z 10V
C1801	403 164 0204	CERAMIC 0.1U Z 25V	C2326	403 280 0508	ELECT 470U M 4V
C1802	403 164 0204	CERAMIC 0.1U Z 25V	C2327	403 283 6309	CERAMIC 1U Z 10V
C1803	403 164 0204	CERAMIC 0.1U Z 25V	C2328	403 283 6309	CERAMIC 1U Z 10V
C1804	403 304 1801	ELECT 100U M 6.3V	C2329	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C233	403 149 9208	CERAMIC 0.01U Z 50V
C1851	403 164 0204	CERAMIC 0.1U Z 25V	C2331	403 283 6309	CERAMIC 1U Z 10V
C1861	403 164 0204	CERAMIC 0.1U Z 25V	C2332	403 280 0508	ELECT 470U M 4V
C1862	403 164 0204	CERAMIC 0.1U Z 25V	C2333	403 283 6309	CERAMIC 1U Z 10V
C1871	403 164 0204	CERAMIC 0.1U Z 25V	C2334	403 283 6309	CERAMIC 1U Z 10V
C1872	403 164 0204	CERAMIC 0.1U Z 25V	C2335	403 283 6309	CERAMIC 1U Z 10V
C1874	403 155 1609	CERAMIC 33P J 50V	C2336	403 283 6309	CERAMIC 1U Z 10V
C1875	403 155 1609	CERAMIC 33P J 50V	C2337	403 283 6309	CERAMIC 1U Z 10V
C1876	403 155 1609	CERAMIC 33P J 50V	C2338	403 283 6309	CERAMIC 1U Z 10V
C1877	403 155 1609	CERAMIC 33P J 50V	C2339	403 164 0204	CERAMIC 0.1U Z 25V
C201	403 164 0204	CERAMIC 0.1U Z 25V	C234	403 164 0204	CERAMIC 0.1U Z 25V
C202	403 164 0204	CERAMIC 0.1U Z 25V	C2341	403 298 9609	CERAMIC 0.1U K 16V
C206	403 164 0204	CERAMIC 0.1U Z 25V		403 325 3303	CERAMIC 0.1U K 16V
C207	403 322 7809	ELECT 220U M 6.3V	C2342	403 113 3805	CERAMIC 1000P K 50V
	403 349 4706	ELECT 220U M 6.3V	C2343	403 283 6309	CERAMIC 1U Z 10V
C208	403 149 9208	CERAMIC 0.01U Z 50V	C2344	403 283 6309	CERAMIC 1U Z 10V
C209	403 164 0204	CERAMIC 0.1U Z 25V	C2346	403 164 0204	CERAMIC 0.1U Z 25V
C210	403 322 7809	ELECT 220U M 6.3V	C2347	403 164 0204	CERAMIC 0.1U Z 25V
	403 349 4706	ELECT 220U M 6.3V	C2348	403 304 1801	ELECT 100U M 6.3V
C2101	403 149 9208	CERAMIC 0.01U Z 50V		403 373 7704	ELECT 100U M 6.3V
C2102	403 149 9208	CERAMIC 0.01U Z 50V	C235	403 322 7809	ELECT 220U M 6.3V
C2103	403 304 1801	ELECT 100U M 6.3V		403 349 4706	ELECT 220U M 6.3V
	403 373 7704	ELECT 100U M 6.3V	C2353TM	403 265 3203	CERAMIC 1000P J 50V
C2104	403 164 0204	CERAMIC 0.1U Z 25V	C2354	403 164 0204	CERAMIC 0.1U Z 25V
C2106	403 149 9208	CERAMIC 0.01U Z 50V	C2356	403 164 0204	CERAMIC 0.1U Z 25V
C2107	403 149 9208	CERAMIC 0.01U Z 50V	C2357	403 304 1801	ELECT 100U M 6.3V
C2108	403 266 8108	NP-ELECT 1U M 50V		403 373 7704	ELECT 100U M 6.3V
C211	403 164 0204	CERAMIC 0.1U Z 25V	C2358	403 283 6309	CERAMIC 1U Z 10V

Key No.	Part No.	Description	Key No.	Part No.	Description
C2359	403 283 6309	CERAMIC 1U Z 10V	C2598	403 321 2607	ELECT 10U M 16V
C236	403 280 1604	ELECT 220U M 16V	C2599	403 164 0204	CERAMIC 0.1U Z 25V
C2360	403 164 0204	CERAMIC 0.1U Z 25V	C261	403 283 6309	CERAMIC 1U Z 10V
C2361	403 164 0204	CERAMIC 0.1U Z 25V	C262	403 164 0204	CERAMIC 0.1U Z 25V
C2362	403 164 0204	CERAMIC 0.1U Z 25V	C263	403 283 6309	CERAMIC 1U Z 10V
C2363	403 164 0204	CERAMIC 0.1U Z 25V	C264	403 283 6309	CERAMIC 1U Z 10V
C2364	403 304 1801	ELECT 100U M 6.3V	C266	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C267	403 283 6309	CERAMIC 1U Z 10V
C2365	403 283 6309	CERAMIC 1U Z 10V	C268	403 283 6309	CERAMIC 1U Z 10V
C2366	403 304 2402	ELECT 100U M 10V	C269	403 283 6309	CERAMIC 1U Z 10V
C2367	403 164 0204	CERAMIC 0.1U Z 25V	C271	403 283 6309	CERAMIC 1U Z 10V
C2368	403 283 6309	CERAMIC 1U Z 10V	C272	403 157 7203	CERAMIC 3900P K 50V
C2369	403 283 6309	CERAMIC 1U Z 10V	C273	403 338 0108	CERAMIC 0.039U K 25V
C237	403 164 0204	CERAMIC 0.1U Z 25V	C274	403 283 6309	CERAMIC 1U Z 10V
C2371	403 283 6309	CERAMIC 1U Z 10V	C276	403 283 6309	CERAMIC 1U Z 10V
C2372	403 283 6309	CERAMIC 1U Z 10V	C277	403 283 6309	CERAMIC 1U Z 10V
C2373	403 283 6309	CERAMIC 1U Z 10V	C278	403 283 6309	CERAMIC 1U Z 10V
C2381	403 283 6309	CERAMIC 1U Z 10V	C279	403 283 6309	CERAMIC 1U Z 10V
C2382	403 283 6309	CERAMIC 1U Z 10V	C281	403 283 6309	CERAMIC 1U Z 10V
C2383	403 304 1801	ELECT 100U M 6.3V	C282	403 283 6309	CERAMIC 1U Z 10V
	403 373 7704	ELECT 100U M 6.3V	C283	403 283 6309	CERAMIC 1U Z 10V
C2384	403 113 3805	CERAMIC 1000P K 50V	C285	403 164 0204	CERAMIC 0.1U Z 25V
C239	403 164 0204	CERAMIC 0.1U Z 25V	C286	403 164 0204	CERAMIC 0.1U Z 25V
C2419	403 164 0204	CERAMIC 0.1U Z 25V	C287	403 304 1801	ELECT 100U M 6.3V
C242	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C243	403 164 0204	CERAMIC 0.1U Z 25V	C289	403 164 0204	CERAMIC 0.1U Z 25V
C244	403 205 2808	CERAMIC 0.047U K 25V	C291	403 164 0204	CERAMIC 0.1U Z 25V
C245	403 283 6309	CERAMIC 1U Z 10V	C292	403 304 1801	ELECT 100U M 6.3V
C247	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C248	403 164 0204	CERAMIC 0.1U Z 25V	C293	403 164 0204	CERAMIC 0.1U Z 25V
C249	403 283 6309	CERAMIC 1U Z 10V	C294	403 164 0204	CERAMIC 0.1U Z 25V
C2501	403 157 3601	CERAMIC 100P J 50V	C296	403 304 1801	ELECT 100U M 6.3V
C2502	403 149 9208	CERAMIC 0.01U Z 50V		403 373 7704	ELECT 100U M 6.3V
C2503	403 321 2607	ELECT 10U M 16V	C301	403 164 0204	CERAMIC 0.1U Z 25V
C2504	403 164 0204	CERAMIC 0.1U Z 25V	C302	403 304 1801	ELECT 100U M 6.3V
C2506	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C251	403 164 0204	CERAMIC 0.1U Z 25V	C304	403 164 0204	CERAMIC 0.1U Z 25V
C252	403 205 2808	CERAMIC 0.047U K 25V	C307	403 164 0204	CERAMIC 0.1U Z 25V
C2521	403 164 0204	CERAMIC 0.1U Z 25V	C308	403 164 0204	CERAMIC 0.1U Z 25V
C2522	403 164 0204	CERAMIC 0.1U Z 25V	C309	403 164 0204	CERAMIC 0.1U Z 25V
C2523	403 321 2607	ELECT 10U M 16V	C3101	403 164 0204	CERAMIC 0.1U Z 25V
C2524	403 164 0204	CERAMIC 0.1U Z 25V	C3102	403 164 0204	CERAMIC 0.1U Z 25V
C2525	403 321 2607	ELECT 10U M 16V	C3102TM3	403 093 6407	OS-SOLID 100U M 10V
C2526	403 321 2607	ELECT 10U M 16V	C3102TM4	403 093 6407	OS-SOLID 100U M 10V
C2527	403 321 2607	ELECT 10U M 16V	C3103	403 164 0204	CERAMIC 0.1U Z 25V
C253	403 283 6309	CERAMIC 1U Z 10V	C3104	403 149 9208	CERAMIC 0.01U Z 50V
C2531	403 157 3601	CERAMIC 100P J 50V	C3106	403 304 2105	ELECT 47U M 6.3V
C2532	403 164 0204	CERAMIC 0.1U Z 25V	C3107	403 343 8809	CERAMIC 0.47U Z 16V
C2533	403 321 2607	ELECT 10U M 16V	C3108	403 304 2105	ELECT 47U M 6.3V
C2534	403 164 0204	CERAMIC 0.1U Z 25V	C3109	403 343 8809	CERAMIC 0.47U Z 16V
C2536	403 164 0204	CERAMIC 0.1U Z 25V	C311	403 164 0204	CERAMIC 0.1U Z 25V
C2541	403 164 0204	CERAMIC 0.1U Z 25V	C3111	403 164 0204	CERAMIC 0.1U Z 25V
C2542	403 164 0204	CERAMIC 0.1U Z 25V	C3112	403 164 0204	CERAMIC 0.1U Z 25V
C2543	403 321 2607	ELECT 10U M 16V	C3113	403 164 0204	CERAMIC 0.1U Z 25V
C2544	403 164 0204	CERAMIC 0.1U Z 25V	C3114	403 162 5300	ELECT 4.7U M 25V
C256	403 164 0204	CERAMIC 0.1U Z 25V	C3116	403 304 2105	ELECT 47U M 6.3V
C2561	403 164 0204	CERAMIC 0.1U Z 25V	C3117	403 164 0204	CERAMIC 0.1U Z 25V
C257	403 283 6309	CERAMIC 1U Z 10V	C3118	403 164 0204	CERAMIC 0.1U Z 25V
C259	403 205 2808	CERAMIC 0.047U K 25V	C3119	403 304 2105	ELECT 47U M 6.3V
C2591	403 229 3508	ELECT 100U M 16V	C312	403 164 0204	CERAMIC 0.1U Z 25V
	403 335 0408	ELECT 100U M 16V	C3121	403 157 1805	CERAMIC 9P D 50V
C2592	403 164 0204	CERAMIC 0.1U Z 25V	C3122	403 164 0204	CERAMIC 0.1U Z 25V
C2593	403 229 3508	ELECT 100U M 16V	C3123	403 149 9208	CERAMIC 0.01U Z 50V
	403 335 0408	ELECT 100U M 16V	C3124	403 162 6000	ELECT 0.47U M 50V
C2594	403 164 0204	CERAMIC 0.1U Z 25V	C3126	403 164 0204	CERAMIC 0.1U Z 25V
C2596	403 164 0204	CERAMIC 0.1U Z 25V	C3127	403 149 9208	CERAMIC 0.01U Z 50V
C2597	403 164 0204	CERAMIC 0.1U Z 25V	C3128	403 164 0204	CERAMIC 0.1U Z 25V

Key No.	Part No.	Description	Key No.	Part No.	Description
C3129	403 164 0204	CERAMIC 0.1U Z 25V	C346	403 164 0204	CERAMIC 0.1U Z 25V
C313	403 164 0204	CERAMIC 0.1U Z 25V	C347	403 164 0204	CERAMIC 0.1U Z 25V
C3131	403 284 4304	CERAMIC 0.022U K 50V	C351	403 304 2105	ELECT 47U M 6.3V
C3132	403 162 6604	ELECT 2.2U M 50V	C352	403 164 0204	CERAMIC 0.1U Z 25V
C3133	403 113 3805	CERAMIC 1000P K 50V	C361	403 164 0204	CERAMIC 0.1U Z 25V
C3134	403 157 2901	CERAMIC 47P J 50V	C362	403 164 0204	CERAMIC 0.1U Z 25V
C3135	403 322 7809	ELECT 220U M 6.3V	C363	403 233 3808	CERAMIC 10P C 50V
	403 349 4706	ELECT 220U M 6.3V	C364	403 233 3808	CERAMIC 10P C 50V
C3136	403 164 0204	CERAMIC 0.1U Z 25V	C3642	403 304 1801	ELECT 100U M 6.3V
C3137	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3138	403 341 3905	POS-SOLID 100U M 6.3V	C366	403 233 3808	CERAMIC 10P C 50V
C314	403 164 0204	CERAMIC 0.1U Z 25V	C367	403 233 3808	CERAMIC 10P C 50V
C315	403 164 0204	CERAMIC 0.1U Z 25V	C391	403 164 0204	CERAMIC 0.1U Z 25V
C3151	403 164 0204	CERAMIC 0.1U Z 25V	C392	403 304 1801	ELECT 100U M 6.3V
C3152	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3153	403 164 0204	CERAMIC 0.1U Z 25V	C393	403 164 0204	CERAMIC 0.1U Z 25V
C3154	403 283 6309	CERAMIC 1U Z 10V	C394	403 304 1801	ELECT 100U M 6.3V
C3156	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3157	403 145 9905	CERAMIC 22P J 50V	C395	403 164 0204	CERAMIC 0.1U Z 25V
C3158	403 145 9905	CERAMIC 22P J 50V	C396	403 347 5507	POS-SOLID 470U M 4V
C3159	403 157 1904	CERAMIC 10P D 50V	C397	403 157 1607	CERAMIC 6P D 50V
C316	403 164 0204	CERAMIC 0.1U Z 25V	C401	403 304 2105	ELECT 47U M 6.3V
C3161	403 157 2901	CERAMIC 47P J 50V	C402	403 304 2105	ELECT 47U M 6.3V
C3162	403 157 3601	CERAMIC 100P J 50V	C403	403 164 0204	CERAMIC 0.1U Z 25V
C3163	403 157 2901	CERAMIC 47P J 50V	C404	403 164 0204	CERAMIC 0.1U Z 25V
C3164	403 157 3601	CERAMIC 100P J 50V	C405	403 283 6309	CERAMIC 1U Z 10V
C3166	403 145 9905	CERAMIC 22P J 50V	C406	403 164 0204	CERAMIC 0.1U Z 25V
C3167	403 157 2505	CERAMIC 27P J 50V	C407	403 164 0204	CERAMIC 0.1U Z 25V
C317	403 164 0204	CERAMIC 0.1U Z 25V	C408	403 164 0204	CERAMIC 0.1U Z 25V
C318	403 164 0204	CERAMIC 0.1U Z 25V	C409	403 164 0204	CERAMIC 0.1U Z 25V
C319	403 164 0204	CERAMIC 0.1U Z 25V	C414	403 164 0204	CERAMIC 0.1U Z 25V
C321	403 164 0204	CERAMIC 0.1U Z 25V	C416	403 164 0204	CERAMIC 0.1U Z 25V
C3210	403 304 1801	ELECT 100U M 6.3V	C417	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C418	403 164 0204	CERAMIC 0.1U Z 25V
C3211	403 164 0204	CERAMIC 0.1U Z 25V	C419	403 164 0204	CERAMIC 0.1U Z 25V
C3212	403 164 0204	CERAMIC 0.1U Z 25V	C4201	403 164 0204	CERAMIC 0.1U Z 25V
C3213	403 164 0204	CERAMIC 0.1U Z 25V	C4202	403 304 1801	ELECT 100U M 6.3V
C3214	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3215	403 164 0204	CERAMIC 0.1U Z 25V	C4203	403 164 0204	CERAMIC 0.1U Z 25V
C3216	403 164 0204	CERAMIC 0.1U Z 25V	C4204	403 164 0204	CERAMIC 0.1U Z 25V
C3217	403 164 0204	CERAMIC 0.1U Z 25V	C4206	403 164 0204	CERAMIC 0.1U Z 25V
C3218	403 164 0204	CERAMIC 0.1U Z 25V	C421	403 164 0204	CERAMIC 0.1U Z 25V
C322	403 164 0204	CERAMIC 0.1U Z 25V	C4211	403 164 0204	CERAMIC 0.1U Z 25V
C3227	403 164 0204	CERAMIC 0.1U Z 25V	C4212	403 304 1801	ELECT 100U M 6.3V
C3228	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C3229	403 149 9208	CERAMIC 0.01U Z 50V	C4213	403 164 0204	CERAMIC 0.1U Z 25V
C323	403 164 0204	CERAMIC 0.1U Z 25V	C4214	403 164 0204	CERAMIC 0.1U Z 25V
C3232	403 304 2105	ELECT 47U M 6.3V	C4216	403 164 0204	CERAMIC 0.1U Z 25V
C324	403 164 0204	CERAMIC 0.1U Z 25V	C4217	403 164 0204	CERAMIC 0.1U Z 25V
C3257	403 164 0204	CERAMIC 0.1U Z 25V	C4218	403 164 0204	CERAMIC 0.1U Z 25V
C3258	403 164 0204	CERAMIC 0.1U Z 25V	C422	403 164 0204	CERAMIC 0.1U Z 25V
C3259	403 149 9208	CERAMIC 0.01U Z 50V	C4221	403 164 0204	CERAMIC 0.1U Z 25V
C326	403 149 9208	CERAMIC 0.01U Z 50V	C4222	403 164 0204	CERAMIC 0.1U Z 25V
C3262	403 304 2105	ELECT 47U M 6.3V	C4223	403 164 0204	CERAMIC 0.1U Z 25V
C329	403 164 0204	CERAMIC 0.1U Z 25V	C4224	403 164 0204	CERAMIC 0.1U Z 25V
C331	403 164 0204	CERAMIC 0.1U Z 25V	C4226	403 164 0204	CERAMIC 0.1U Z 25V
C332	403 164 0204	CERAMIC 0.1U Z 25V	C4227	403 164 0204	CERAMIC 0.1U Z 25V
C333	403 164 0204	CERAMIC 0.1U Z 25V	C4228	403 164 0204	CERAMIC 0.1U Z 25V
C334	403 164 0204	CERAMIC 0.1U Z 25V	C4229	403 164 0204	CERAMIC 0.1U Z 25V
C336	403 164 0204	CERAMIC 0.1U Z 25V	C423	403 164 0204	CERAMIC 0.1U Z 25V
C337	403 164 0204	CERAMIC 0.1U Z 25V	C4230	403 164 0204	CERAMIC 0.1U Z 25V
C338	403 164 0204	CERAMIC 0.1U Z 25V	C4231	403 304 2105	ELECT 47U M 6.3V
C339	403 164 0204	CERAMIC 0.1U Z 25V	C4233	403 164 0204	CERAMIC 0.1U Z 25V
C341	403 304 2105	ELECT 47U M 6.3V	C4234	403 304 2105	ELECT 47U M 6.3V
C342	403 164 0204	CERAMIC 0.1U Z 25V	C4236	403 164 0204	CERAMIC 0.1U Z 25V
C343	403 164 0204	CERAMIC 0.1U Z 25V	C4237	403 155 1302	CERAMIC 150P J 50V
C344	403 164 0204	CERAMIC 0.1U Z 25V	C4238	403 155 2200	CERAMIC 3300P K 50V

Key No.	Part No.	Description	Key No.	Part No.	Description
C4239	403 304 2105	ELECT 47U M 6.3V	C4814	403 164 0204	CERAMIC 0.1U Z 25V
C4241	403 164 0204	CERAMIC 0.1U Z 25V	C4821	403 164 0204	CERAMIC 0.1U Z 25V
C4246	403 164 0204	CERAMIC 0.1U Z 25V	C4822	403 164 0204	CERAMIC 0.1U Z 25V
C4247	403 164 0204	CERAMIC 0.1U Z 25V	C4831	403 164 0204	CERAMIC 0.1U Z 25V
C4251	403 304 1801	ELECT 100U M 6.3V	C4836	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C4841	403 164 0204	CERAMIC 0.1U Z 25V
C4252	403 164 0204	CERAMIC 0.1U Z 25V	C4842	403 164 0204	CERAMIC 0.1U Z 25V
C4253	403 164 0204	CERAMIC 0.1U Z 25V	C4851	403 164 0204	CERAMIC 0.1U Z 25V
C426	403 164 0204	CERAMIC 0.1U Z 25V	C4861	403 164 0204	CERAMIC 0.1U Z 25V
C4262	403 164 0204	CERAMIC 0.1U Z 25V	C4862	403 164 0204	CERAMIC 0.1U Z 25V
C4263	403 164 0204	CERAMIC 0.1U Z 25V	C4881	403 322 7809	ELECT 220U M 6.3V
C427	403 164 0204	CERAMIC 0.1U Z 25V		403 349 4706	ELECT 220U M 6.3V
C4272	403 164 0204	CERAMIC 0.1U Z 25V	C4882	403 298 9609	CERAMIC 0.1U K 16V
C4273	403 164 0204	CERAMIC 0.1U Z 25V		403 325 3303	CERAMIC 0.1U K 16V
C428	403 164 0204	CERAMIC 0.1U Z 25V	C4883	403 322 7809	ELECT 220U M 6.3V
C4281	403 164 0204	CERAMIC 0.1U Z 25V		403 349 4706	ELECT 220U M 6.3V
C429	403 164 0204	CERAMIC 0.1U Z 25V	C4884	403 298 9609	CERAMIC 0.1U K 16V
C4295	403 347 5507	POS-SOLID 470U M 4V		403 325 3303	CERAMIC 0.1U K 16V
C431	403 164 0204	CERAMIC 0.1U Z 25V	C4891	403 298 9609	CERAMIC 0.1U K 16V
C432	403 164 0204	CERAMIC 0.1U Z 25V		403 325 3303	CERAMIC 0.1U K 16V
C433	403 164 0204	CERAMIC 0.1U Z 25V	C501	403 304 2105	ELECT 47U M 6.3V
C434	403 164 0204	CERAMIC 0.1U Z 25V	C502	403 164 0204	CERAMIC 0.1U Z 25V
C436	403 164 0204	CERAMIC 0.1U Z 25V	C503	403 304 3300	ELECT 47U M 16V
C437	403 164 0204	CERAMIC 0.1U Z 25V	C504	403 164 0204	CERAMIC 0.1U Z 25V
C438	403 164 0204	CERAMIC 0.1U Z 25V	C505	403 164 0204	CERAMIC 0.1U Z 25V
C439	403 164 0204	CERAMIC 0.1U Z 25V	C506	403 304 3300	ELECT 47U M 16V
C441	403 164 0204	CERAMIC 0.1U Z 25V	C507	403 164 0204	CERAMIC 0.1U Z 25V
C442	403 164 0204	CERAMIC 0.1U Z 25V	C508	403 164 0204	CERAMIC 0.1U Z 25V
C443	403 164 0204	CERAMIC 0.1U Z 25V	C509	403 304 3300	ELECT 47U M 16V
C4501	403 070 2606	CERAMIC 0.1U Z 50V	C511	403 164 0204	CERAMIC 0.1U Z 25V
C4502	403 175 3508	ELECT 22U M 35V	C512	403 164 0204	CERAMIC 0.1U Z 25V
C4503	403 164 0204	CERAMIC 0.1U Z 25V	C531	403 304 2105	ELECT 47U M 6.3V
C4504	403 164 0204	CERAMIC 0.1U Z 25V	C532	403 164 0204	CERAMIC 0.1U Z 25V
C4506	403 164 0204	CERAMIC 0.1U Z 25V	C533	403 304 3300	ELECT 47U M 16V
C4507	403 229 3508	ELECT 100U M 16V	C534	403 164 0204	CERAMIC 0.1U Z 25V
C4508	403 164 0204	CERAMIC 0.1U Z 25V	C535	403 164 0204	CERAMIC 0.1U Z 25V
C4509	403 164 0204	CERAMIC 0.1U Z 25V	C536	403 304 3300	ELECT 47U M 16V
C451	403 164 0204	CERAMIC 0.1U Z 25V	C537	403 164 0204	CERAMIC 0.1U Z 25V
C4511	403 157 2901	CERAMIC 47P J 50V	C538	403 164 0204	CERAMIC 0.1U Z 25V
C4512	403 233 3808	CERAMIC 10P C 50V	C539	403 304 3300	ELECT 47U M 16V
C4516	403 164 0204	CERAMIC 0.1U Z 25V	C541	403 164 0204	CERAMIC 0.1U Z 25V
C4531	403 164 0204	CERAMIC 0.1U Z 25V	C542	403 164 0204	CERAMIC 0.1U Z 25V
C4532TM	403 139 7306	CERAMIC 18P J 50V	C561	403 304 2105	ELECT 47U M 6.3V
C4533TM	403 139 7306	CERAMIC 18P J 50V	C562	403 164 0204	CERAMIC 0.1U Z 25V
C4534TM	403 139 7306	CERAMIC 18P J 50V	C563	403 304 3300	ELECT 47U M 16V
C4541	403 283 6309	CERAMIC 1U Z 10V	C564	403 164 0204	CERAMIC 0.1U Z 25V
C4542	403 283 6309	CERAMIC 1U Z 10V	C565	403 164 0204	CERAMIC 0.1U Z 25V
C4543	403 283 6309	CERAMIC 1U Z 10V	C566	403 304 3300	ELECT 47U M 16V
C4544	403 280 1604	ELECT 220U M 16V	C567	403 164 0204	CERAMIC 0.1U Z 25V
C4545	403 164 0204	CERAMIC 0.1U Z 25V	C568	403 304 3300	ELECT 47U M 16V
C4546	403 157 1904	CERAMIC 10P D 50V	C569	403 164 0204	CERAMIC 0.1U Z 25V
C4547	403 157 1904	CERAMIC 10P D 50V	C571	403 164 0204	CERAMIC 0.1U Z 25V
C4548	403 157 1904	CERAMIC 10P D 50V	C572	403 164 0204	CERAMIC 0.1U Z 25V
C4581	403 155 1609	CERAMIC 33P J 50V	C5801	403 164 0204	CERAMIC 0.1U Z 25V
C4582	403 155 1609	CERAMIC 33P J 50V	C5831	403 164 0204	CERAMIC 0.1U Z 25V
C4583	403 155 1609	CERAMIC 33P J 50V	C5861	403 164 0204	CERAMIC 0.1U Z 25V
C4584	403 157 1508	CERAMIC 3P C 50V	C5881	403 164 0204	CERAMIC 0.1U Z 25V
C4586	403 157 1508	CERAMIC 3P C 50V	C6300	403 164 0204	CERAMIC 0.1U Z 25V
C4587	403 157 1508	CERAMIC 3P C 50V	C6301	403 164 0204	CERAMIC 0.1U Z 25V
C4652	403 233 3808	CERAMIC 10P C 50V	C6302	403 304 1801	ELECT 100U M 6.3V
C4801	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C4802	403 164 0204	CERAMIC 0.1U Z 25V	C6303	403 164 0204	CERAMIC 0.1U Z 25V
C4803	403 164 0204	CERAMIC 0.1U Z 25V	C6304	403 113 3805	CERAMIC 1000P K 50V
C4804	403 164 0204	CERAMIC 0.1U Z 25V	C6305	403 113 3805	CERAMIC 1000P K 50V
C481	403 164 0204	CERAMIC 0.1U Z 25V	C6306	403 164 0204	CERAMIC 0.1U Z 25V
C4813	403 304 1801	ELECT 100U M 6.3V	C6307	403 164 0204	CERAMIC 0.1U Z 25V
	403 373 7704	ELECT 100U M 6.3V	C6308	403 164 0204	CERAMIC 0.1U Z 25V

Key No.	Part No.	Description	Key No.	Part No.	Description
C6309	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C6311	403 113 3805	CERAMIC 1000P K 50V	C8002	403 283 6309	CERAMIC 1U Z 10V
C6312	403 164 0204	CERAMIC 0.1U Z 25V	C8003	403 304 1801	ELECT 100U M 6.3V
C6313	403 113 3805	CERAMIC 1000P K 50V		403 373 7704	ELECT 100U M 6.3V
C6314	403 164 0204	CERAMIC 0.1U Z 25V	C8004	403 283 6309	CERAMIC 1U Z 10V
C6322	403 341 3905	POS-SOLID 100U M 6.3V	C8006	403 169 2807	CERAMIC 330P J 50V
C6323	403 164 0204	CERAMIC 0.1U Z 25V	C8007	403 304 1801	ELECT 100U M 6.3V
C6324	403 113 3805	CERAMIC 1000P K 50V		403 373 7704	ELECT 100U M 6.3V
C6326	403 164 0204	CERAMIC 0.1U Z 25V	C8008	403 283 6309	CERAMIC 1U Z 10V
C6327	403 164 0204	CERAMIC 0.1U Z 25V	C8009	403 157 3601	CERAMIC 100P J 50V
C6328	403 164 0204	CERAMIC 0.1U Z 25V	C8011	403 157 3601	CERAMIC 100P J 50V
C6329	403 164 0204	CERAMIC 0.1U Z 25V	C8012	403 157 3601	CERAMIC 100P J 50V
C6331	403 164 0204	CERAMIC 0.1U Z 25V	C8013	403 157 3601	CERAMIC 100P J 50V
C6332	403 113 3805	CERAMIC 1000P K 50V	C8014	403 157 3601	CERAMIC 100P J 50V
C6333	403 164 0204	CERAMIC 0.1U Z 25V	C8016	403 164 0204	CERAMIC 0.1U Z 25V
C6334	403 113 3805	CERAMIC 1000P K 50V	C8017	403 164 0204	CERAMIC 0.1U Z 25V
C6335	403 164 0204	CERAMIC 0.1U Z 25V	C8018	403 304 1801	ELECT 100U M 6.3V
C6341	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C6343	403 164 0204	CERAMIC 0.1U Z 25V	C8019	403 283 6309	CERAMIC 1U Z 10V
C6344	403 113 3805	CERAMIC 1000P K 50V	C802	403 164 0204	CERAMIC 0.1U Z 25V
C6346	403 164 0204	CERAMIC 0.1U Z 25V	C8021	403 155 1500	CERAMIC 180P J 50V
C6347	403 164 0204	CERAMIC 0.1U Z 25V	C8022	403 169 2807	CERAMIC 330P J 50V
C6348	403 164 0204	CERAMIC 0.1U Z 25V	C8023	403 169 2807	CERAMIC 330P J 50V
C6349	403 164 0204	CERAMIC 0.1U Z 25V	C8024	403 155 1500	CERAMIC 180P J 50V
C6351	403 164 0204	CERAMIC 0.1U Z 25V	C8026	403 169 2807	CERAMIC 330P J 50V
C6352	403 113 3805	CERAMIC 1000P K 50V	C8027	403 155 1500	CERAMIC 180P J 50V
C6353	403 164 0204	CERAMIC 0.1U Z 25V	C8028	403 169 2807	CERAMIC 330P J 50V
C6354	403 113 3805	CERAMIC 1000P K 50V	C803	403 155 1609	CERAMIC 33P J 50V
C6355	403 164 0204	CERAMIC 0.1U Z 25V	C8031	403 304 1801	ELECT 100U M 6.3V
C6361	403 164 0204	CERAMIC 0.1U Z 25V		403 373 7704	ELECT 100U M 6.3V
C6362	403 341 3905	POS-SOLID 100U M 6.3V	C8032	403 298 9609	CERAMIC 0.1U K 16V
C6364	403 164 0204	CERAMIC 0.1U Z 25V		403 325 3303	CERAMIC 0.1U K 16V
C6365	403 113 3805	CERAMIC 1000P K 50V	C804	403 155 1609	CERAMIC 33P J 50V
C6366	403 113 3805	CERAMIC 1000P K 50V	C805	403 164 0204	CERAMIC 0.1U Z 25V
C6368	403 164 0204	CERAMIC 0.1U Z 25V	C806	403 304 2105	ELECT 47U M 6.3V
C6369	403 164 0204	CERAMIC 0.1U Z 25V	C8061	403 304 2105	ELECT 47U M 6.3V
C6371	403 164 0204	CERAMIC 0.1U Z 25V	C8062	403 164 0204	CERAMIC 0.1U Z 25V
C6372	403 113 3805	CERAMIC 1000P K 50V	C807	403 164 0204	CERAMIC 0.1U Z 25V
C6373	403 164 0204	CERAMIC 0.1U Z 25V	C8071	403 164 0204	CERAMIC 0.1U Z 25V
C6374	403 113 3805	CERAMIC 1000P K 50V	C808	403 215 1006	CERAMIC 470P J 50V
C6376	403 164 0204	CERAMIC 0.1U Z 25V	C8081	403 164 0204	CERAMIC 0.1U Z 25V
C7801	403 164 0204	CERAMIC 0.1U Z 25V	C809	403 283 6309	CERAMIC 1U Z 10V
C7802	403 164 0204	CERAMIC 0.1U Z 25V	C8091	403 164 0204	CERAMIC 0.1U Z 25V
C7803	403 164 0204	CERAMIC 0.1U Z 25V	C8092	403 164 0204	CERAMIC 0.1U Z 25V
C7806	403 304 3300	ELECT 47U M 16V	C8093	403 304 2105	ELECT 47U M 6.3V
C7807	403 304 3300	ELECT 47U M 16V	C810	403 164 0204	CERAMIC 0.1U Z 25V
C7821	403 321 7404	ELECT 100U M 16V	C811	403 164 0204	CERAMIC 0.1U Z 25V
C7822	403 164 0204	CERAMIC 0.1U Z 25V	C812	403 164 0204	CERAMIC 0.1U Z 25V
C7831	403 164 0204	CERAMIC 0.1U Z 25V	C813	403 164 0204	CERAMIC 0.1U Z 25V
C7832	403 321 7503	ELECT 220U M 16V	C814	403 304 1801	ELECT 100U M 6.3V
C7833	403 280 1604	ELECT 220U M 16V		403 373 7704	ELECT 100U M 6.3V
C7841	403 321 7404	ELECT 100U M 16V	C815	403 164 0204	CERAMIC 0.1U Z 25V
C7842	403 164 0204	CERAMIC 0.1U Z 25V	C816	403 164 0204	CERAMIC 0.1U Z 25V
C7851	403 164 0204	CERAMIC 0.1U Z 25V	C817	403 164 0204	CERAMIC 0.1U Z 25V
C7852	403 321 7503	ELECT 220U M 16V	C818	403 304 1801	ELECT 100U M 6.3V
C7853	403 229 3508	ELECT 100U M 16V		403 373 7704	ELECT 100U M 6.3V
C7861	403 321 7503	ELECT 220U M 16V	C819	403 164 0204	CERAMIC 0.1U Z 25V
C7862	403 164 0204	CERAMIC 0.1U Z 25V	C820	403 164 0204	CERAMIC 0.1U Z 25V
C7871	403 164 0204	CERAMIC 0.1U Z 25V	C821	403 164 0204	CERAMIC 0.1U Z 25V
C7872	403 321 7503	ELECT 220U M 16V	C822	403 164 0204	CERAMIC 0.1U Z 25V
C7873	403 280 1604	ELECT 220U M 16V	C823	403 164 0204	CERAMIC 0.1U Z 25V
C7881	403 321 7503	ELECT 220U M 16V	C824	403 164 0204	CERAMIC 0.1U Z 25V
C7882	403 164 0204	CERAMIC 0.1U Z 25V	C8305	403 283 6309	CERAMIC 1U Z 10V
C7891	403 164 0204	CERAMIC 0.1U Z 25V	C831	403 164 0204	CERAMIC 0.1U Z 25V
C7892	403 321 7503	ELECT 220U M 16V	C832	403 283 6309	CERAMIC 1U Z 10V
C7893	403 280 1604	ELECT 220U M 16V	C834	403 164 0204	CERAMIC 0.1U Z 25V
C8001	403 304 1801	ELECT 100U M 6.3V	C8611	403 304 1801	ELECT 100U M 6.3V

Key No.	Part No.	Description			Key No.	Part No.	Description		
	403 373 7704	ELECT	100U M	6.3V	C9516	403 164 0204	CERAMIC	0.1U Z	25V
C8612	403 304 1801	ELECT	100U M	6.3V	C9801	403 304 1801	ELECT	100U M	6.3V
	403 373 7704	ELECT	100U M	6.3V		403 373 7704	ELECT	100U M	6.3V
C8613	403 164 0204	CERAMIC	0.1U Z	25V	C9802	403 164 0204	CERAMIC	0.1U Z	25V
C8614	403 164 0204	CERAMIC	0.1U Z	25V	C9803	403 153 9102	CERAMIC	5P C	50V
C9401	403 304 1801	ELECT	100U M	6.3V	C9804	403 113 3805	CERAMIC	1000P K	50V
	403 373 7704	ELECT	100U M	6.3V	C9805	403 298 9609	CERAMIC	0.1U K	16V
C9402	403 304 1801	ELECT	100U M	6.3V		403 325 3303	CERAMIC	0.1U K	16V
	403 373 7704	ELECT	100U M	6.3V	C9806	403 164 0204	CERAMIC	0.1U Z	25V
C9403	403 304 1801	ELECT	100U M	6.3V	C9807	403 304 1801	ELECT	100U M	6.3V
	403 373 7704	ELECT	100U M	6.3V		403 373 7704	ELECT	100U M	6.3V
C9404	403 164 0204	CERAMIC	0.1U Z	25V	C9808	403 164 0204	CERAMIC	0.1U Z	25V
C9406	403 304 1801	ELECT	100U M	6.3V	C9809	403 164 0204	CERAMIC	0.1U Z	25V
	403 373 7704	ELECT	100U M	6.3V	C9822	403 164 0204	CERAMIC	0.1U Z	25V
C9407	403 164 0204	CERAMIC	0.1U Z	25V	C9851	403 298 9609	CERAMIC	0.1U K	16V
C9411	403 164 0204	CERAMIC	0.1U Z	25V		403 325 3303	CERAMIC	0.1U K	16V
C9412	403 164 0204	CERAMIC	0.1U Z	25V	C9852	403 155 1609	CERAMIC	33P J	50V
C9413	403 164 0204	CERAMIC	0.1U Z	25V	C9853	403 155 1609	CERAMIC	33P J	50V
C9414	403 164 0204	CERAMIC	0.1U Z	25V	C9882	403 298 9609	CERAMIC	0.1U K	16V
C9416	403 164 0204	CERAMIC	0.1U Z	25V		403 325 3303	CERAMIC	0.1U K	16V
C9417	403 164 0204	CERAMIC	0.1U Z	25V	C9884	403 298 9609	CERAMIC	0.1U K	16V
C9418	403 164 0204	CERAMIC	0.1U Z	25V		403 325 3303	CERAMIC	0.1U K	16V
C9419	403 164 0204	CERAMIC	0.1U Z	25V	C9885	403 155 1609	CERAMIC	33P J	50V
C9421	403 164 0204	CERAMIC	0.1U Z	25V	C9886	403 155 1609	CERAMIC	33P J	50V
C9422	403 164 0204	CERAMIC	0.1U Z	25V	C9887	403 175 4802	NP-ELECT	10U M	10V
C9423	403 164 0204	CERAMIC	0.1U Z	25V	**RESISTOR**				
C9426	403 164 0204	CERAMIC	0.1U Z	25V	RB1503	645 037 3107	R-NETWORK	10X4 0.063W	
C9427	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9428	403 164 0204	CERAMIC	0.1U Z	25V	RB1533	645 037 3107	R-NETWORK	10X4 0.063W	
C9429	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9431	403 164 0204	CERAMIC	0.1U Z	25V	RB1563	645 037 3107	R-NETWORK	10X4 0.063W	
C9432	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9433	403 164 0204	CERAMIC	0.1U Z	25V	RB401	645 037 3107	R-NETWORK	10X4 0.063W	
C9434	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9436	403 164 0204	CERAMIC	0.1U Z	25V	RB402	645 037 3107	R-NETWORK	10X4 0.063W	
C9437	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9438	403 164 0204	CERAMIC	0.1U Z	25V	RB403	645 037 3107	R-NETWORK	10X4 0.063W	
C9439	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9441	403 164 0204	CERAMIC	0.1U Z	25V	RB404	645 037 3107	R-NETWORK	10X4 0.063W	
C9442	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9443	403 164 0204	CERAMIC	0.1U Z	25V	RB406	645 037 3107	R-NETWORK	10X4 0.063W	
C9444	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9451	403 304 1801	ELECT	100U M	6.3V	RB407	645 037 3107	R-NETWORK	10X4 0.063W	
	403 373 7704	ELECT	100U M	6.3V		645 028 5981	R-NETWORK	10X4 1/16W	
C9452	403 164 0204	CERAMIC	0.1U Z	25V	RB408	645 037 3107	R-NETWORK	10X4 0.063W	
C9453	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9454	403 164 0204	CERAMIC	0.1U Z	25V	RB409	645 037 3107	R-NETWORK	10X4 0.063W	
C9456	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9457	403 164 0204	CERAMIC	0.1U Z	25V	RB411	645 037 3107	R-NETWORK	10X4 0.063W	
C9458	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9459	403 164 0204	CERAMIC	0.1U Z	25V	RB503	645 037 3107	R-NETWORK	10X4 0.063W	
C9461	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9462	403 164 0204	CERAMIC	0.1U Z	25V	RB504	645 037 3107	R-NETWORK	10X4 0.063W	
C9463	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9465	403 164 0204	CERAMIC	0.1U Z	25V	RB533	645 037 3107	R-NETWORK	10X4 0.063W	
C9501	403 304 2402	ELECT	100U M	10V		645 028 5981	R-NETWORK	10X4 1/16W	
C9502	403 164 0204	CERAMIC	0.1U Z	25V	RB534	645 037 3107	R-NETWORK	10X4 0.063W	
C9503	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9504	403 164 0204	CERAMIC	0.1U Z	25V	RB563	645 037 3107	R-NETWORK	10X4 0.063W	
C9506	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9507	403 164 0204	CERAMIC	0.1U Z	25V	RB564	645 037 3107	R-NETWORK	10X4 0.063W	
C9508	403 164 0204	CERAMIC	0.1U Z	25V		645 028 5981	R-NETWORK	10X4 1/16W	
C9509	403 164 0204	CERAMIC	0.1U Z	25V	RB5801	645 028 0719	R-NETWORK	10KX4 1/32W	
C9511	403 164 0204	CERAMIC	0.1U Z	25V	RB5802	645 028 0719	R-NETWORK	10KX4 1/32W	
C9512	403 164 0204	CERAMIC	0.1U Z	25V	RB5811	645 037 0816	R-NETWORK	0X4 1/32W	
C9513	403 164 0204	CERAMIC	0.1U Z	25V	RB5812	645 037 0816	R-NETWORK	0X4 1/32W	
C9514	403 164 0204	CERAMIC	0.1U Z	25V	RB5831	645 028 0719	R-NETWORK	10KX4 1/32W	

Key No.	Part No.	Description
RB5832	645 028 0719	R-NETWORK 10KX4 1/32W
RB5841	645 037 0816	R-NETWORK 0X4 1/32W
RB5842	645 037 0816	R-NETWORK 0X4 1/32W
RB5861	645 028 0719	R-NETWORK 10KX4 1/32W
RB5862	645 028 0719	R-NETWORK 10KX4 1/32W
RB5871	645 037 0816	R-NETWORK 0X4 1/32W
RB5872	645 037 0816	R-NETWORK 0X4 1/32W
RB5881	645 028 0719	R-NETWORK 10KX4 1/32W
RB5882	645 028 0719	R-NETWORK 10KX4 1/32W
RB5891	645 037 0816	R-NETWORK 0X4 1/32W
RB5892	645 037 0816	R-NETWORK 0X4 1/32W
RB8001	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8002	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8003	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8004	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8005	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8006	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8007	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8008	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8009	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB801	645 037 4920	R-NETWORK 3.3KX4 0.063W
	645 031 4070	R-NETWORK 3.3KX4 1/16W
RB8011	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8012	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8013	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB8014	645 037 3107	R-NETWORK 10X4 0.063W
	645 028 5981	R-NETWORK 10X4 1/16W
RB802	645 037 4920	R-NETWORK 3.3KX4 0.063W
	645 031 4070	R-NETWORK 3.3KX4 1/16W
RB803	645 037 4920	R-NETWORK 3.3KX4 0.063W
	645 031 4070	R-NETWORK 3.3KX4 1/16W
RB804	645 037 4920	R-NETWORK 3.3KX4 0.063W
	645 031 4070	R-NETWORK 3.3KX4 1/16W
RB9411	645 027 1519	R-NETWORK 0X4 1/16W
RB9412	645 027 1519	R-NETWORK 0X4 1/16W
RB9413	645 027 1519	R-NETWORK 0X4 1/16W
RB9414	645 027 1519	R-NETWORK 0X4 1/16W
RB9416	645 027 1519	R-NETWORK 0X4 1/16W
RB9417	645 027 1519	R-NETWORK 0X4 1/16W
RB9418	645 027 1519	R-NETWORK 0X4 1/16W
RB9419	645 027 1519	R-NETWORK 0X4 1/16W
RB9802	645 021 0365	R-NETWORK 100KX4 0.063W
	645 025 5397	R-NETWORK 100KX4 1/16W
RB9806	645 021 0365	R-NETWORK 100KX4 0.063W
	645 025 5397	R-NETWORK 100KX4 1/16W
R1101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1103	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1105	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1106	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1107	401 105 2706	MT-GLAZE 220 JA 1/16W
R1108	401 105 2706	MT-GLAZE 220 JA 1/16W
R1109	401 105 5202	MT-GLAZE 470 JA 1/16W
R1112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Key No.	Part No.	Description
R1113	401 105 0702	MT-GLAZE 100K JA 1/16W
R1114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1115	401 105 0504	MT-GLAZE 1K JA 1/16W
R1116	401 105 0504	MT-GLAZE 1K JA 1/16W
R1117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1121	401 105 0504	MT-GLAZE 1K JA 1/16W
R1123	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1124	401 105 0504	MT-GLAZE 1K JA 1/16W
R1126	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1127	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1128	401 105 0603	MT-GLAZE 10K JA 1/16W
R1129	401 105 8104	MT-GLAZE 56K JA 1/16W
R1131	401 105 5400	MT-GLAZE 47K JA 1/16W
R1132	401 105 0504	MT-GLAZE 1K JA 1/16W
R1133	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1134	401 105 6506	MT-GLAZE 680 JA 1/16W
R1135	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1136	401 105 2706	MT-GLAZE 220 JA 1/16W
R1137	401 105 6506	MT-GLAZE 680 JA 1/16W
R1139	401 105 5103	MT-GLAZE 47 JA 1/16W
R1141	401 105 0504	MT-GLAZE 1K JA 1/16W
R1142	401 105 8104	MT-GLAZE 56K JA 1/16W
R1143	401 105 5400	MT-GLAZE 47K JA 1/16W
R1144	401 105 0504	MT-GLAZE 1K JA 1/16W
R1145	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R1146	401 105 6506	MT-GLAZE 680 JA 1/16W
R1147	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R1148	401 105 2706	MT-GLAZE 220 JA 1/16W
R1149	401 105 6506	MT-GLAZE 680 JA 1/16W
R1153	401 105 5103	MT-GLAZE 47 JA 1/16W
R1154	401 105 0504	MT-GLAZE 1K JA 1/16W
R1155	401 105 5202	MT-GLAZE 470 JA 1/16W
R1156	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1157	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1160	401 105 0603	MT-GLAZE 10K JA 1/16W
R1162	401 105 0504	MT-GLAZE 1K JA 1/16W
R1163	401 105 0504	MT-GLAZE 1K JA 1/16W
R1164	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R1316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R140	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1402	401 105 0306	MT-GLAZE 10 JA 1/16W
R1403	401 105 0306	MT-GLAZE 10 JA 1/16W
R1404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1406	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R1407	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R1408	401 105 0306	MT-GLAZE 10 JA 1/16W
R1409	401 105 0306	MT-GLAZE 10 JA 1/16W
R141	401 105 2904	MT-GLAZE 22K JA 1/16W
R1411	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R1412	401 113 5904	MT-GLAZE 1.3K JA 1/16W
R142	401 105 1600	MT-GLAZE 15K JA 1/16W
R143	401 105 0504	MT-GLAZE 1K JA 1/16W
R1431	401 105 0603	MT-GLAZE 10K JA 1/16W
R144	401 105 0504	MT-GLAZE 1K JA 1/16W
R145	401 105 4809	MT-GLAZE 390K JA 1/16W
R1451	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R146	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R147	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R148	401 105 0405	MT-GLAZE 100 JA 1/16W
R149	401 105 0504	MT-GLAZE 1K JA 1/16W
R1501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1503	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R151	401 105 6506	MT-GLAZE 680 JA 1/16W

Key No.	Part No.	Description
R1512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1515	401 105 0504	MT-GLAZE 1K JA 1/16W
R1517	401 105 0504	MT-GLAZE 1K JA 1/16W
R152	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R153	401 105 0504	MT-GLAZE 1K JA 1/16W
R1531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R154	401 105 0405	MT-GLAZE 100 JA 1/16W
R1542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1546	401 105 0504	MT-GLAZE 1K JA 1/16W
R1548	401 105 0504	MT-GLAZE 1K JA 1/16W
R1561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1576	401 105 0504	MT-GLAZE 1K JA 1/16W
R1578	401 105 0504	MT-GLAZE 1K JA 1/16W
R159	401 105 3000	MT-GLAZE 220K JA 1/16W
R161	401 105 5400	MT-GLAZE 47K JA 1/16W
R162	401 105 0504	MT-GLAZE 1K JA 1/16W
R163	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R164	401 105 5202	MT-GLAZE 470 JA 1/16W
R165	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R167	401 105 0405	MT-GLAZE 100 JA 1/16W
R168	401 105 2706	MT-GLAZE 220 JA 1/16W
R1801	401 105 0603	MT-GLAZE 10K JA 1/16W
R1802	401 105 0603	MT-GLAZE 10K JA 1/16W
R1803	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1804	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1806	401 105 0603	MT-GLAZE 10K JA 1/16W
R1808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1809	401 105 0603	MT-GLAZE 10K JA 1/16W
R1811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1812	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1815	401 105 0603	MT-GLAZE 10K JA 1/16W
R1816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1817	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1818	401 105 6001	MT-GLAZE 5.6K JA 1/16W
R1819	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1821	401 105 0603	MT-GLAZE 10K JA 1/16W
R1822	401 105 0603	MT-GLAZE 10K JA 1/16W
R1823	401 105 0603	MT-GLAZE 10K JA 1/16W
R1824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1834	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1842	401 105 0603	MT-GLAZE 10K JA 1/16W
R1843	401 105 0603	MT-GLAZE 10K JA 1/16W
R1852	401 105 0603	MT-GLAZE 10K JA 1/16W
R1853	401 105 5400	MT-GLAZE 47K JA 1/16W
R1857	401 105 0603	MT-GLAZE 10K JA 1/16W
R1858	401 105 5400	MT-GLAZE 47K JA 1/16W
R1861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1862	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1865	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1881	401 105 0603	MT-GLAZE 10K JA 1/16W
R1882	401 105 0603	MT-GLAZE 10K JA 1/16W
R1883	401 105 0603	MT-GLAZE 10K JA 1/16W
R1884	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1887	401 105 0603	MT-GLAZE 10K JA 1/16W
R1888	401 105 0603	MT-GLAZE 10K JA 1/16W
R1891	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1892	401 105 0405	MT-GLAZE 100 JA 1/16W
R1893	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1894	401 105 0405	MT-GLAZE 100 JA 1/16W
R2000	401 105 0405	MT-GLAZE 100 JA 1/16W
R2001	401 105 0405	MT-GLAZE 100 JA 1/16W
R201	401 105 0405	MT-GLAZE 100 JA 1/16W
R202	401 113 4402	MT-GLAZE 75 JA 1/16W
R203	401 105 0405	MT-GLAZE 100 JA 1/16W
R204	401 113 4402	MT-GLAZE 75 JA 1/16W
R205	401 105 0405	MT-GLAZE 100 JA 1/16W
R206	401 113 4402	MT-GLAZE 75 JA 1/16W
R207	645 050 8561	IMPEDANCE,120 OHM P
R208	401 105 0900	MT-GLAZE 120 JA 1/16W
R209	645 050 8561	IMPEDANCE,120 OHM P
R210	401 105 0900	MT-GLAZE 120 JA 1/16W
R2101	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R2102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2103	401 105 0405	MT-GLAZE 100 JA 1/16W
R2104	401 105 0405	MT-GLAZE 100 JA 1/16W
R2106	401 105 4007	MT-GLAZE 330 JA 1/16W
R2107	401 105 0504	MT-GLAZE 1K JA 1/16W
R2108	401 105 0504	MT-GLAZE 1K JA 1/16W
R2109	401 105 0504	MT-GLAZE 1K JA 1/16W
R211	645 050 8561	IMPEDANCE,120 OHM P
R2111	401 105 0504	MT-GLAZE 1K JA 1/16W
R2112	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R2113	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R212	401 105 0900	MT-GLAZE 120 JA 1/16W
R213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R215	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R219	401 105 3901	MT-GLAZE 33 JA 1/16W
R221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R226	401 105 3901	MT-GLAZE 33 JA 1/16W
R228	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2319	401 105 0504	MT-GLAZE 1K JA 1/16W
R2320	401 105 0405	MT-GLAZE 100 JA 1/16W
R2321	401 105 0504	MT-GLAZE 1K JA 1/16W
R2322	401 105 1105	MT-GLAZE 12K JA 1/16W
R2323	401 219 1008	MT-GLAZE 1.6K FA 1/16W
R2324	401 105 0603	MT-GLAZE 10K JA 1/16W
R233	401 105 3901	MT-GLAZE 33 JA 1/16W
R2331	401 105 0306	MT-GLAZE 10 JA 1/16W
R2332	401 105 0306	MT-GLAZE 10 JA 1/16W
R2333	401 105 0306	MT-GLAZE 10 JA 1/16W
R2334	401 105 0504	MT-GLAZE 1K JA 1/16W
R2336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2339	401 105 0306	MT-GLAZE 10 JA 1/16W
R2341	401 217 4100	MT-GLAZE 22K FA 1/16W
R2342	401 217 4100	MT-GLAZE 22K FA 1/16W
R2344	401 217 4100	MT-GLAZE 22K FA 1/16W
R2345	401 105 0504	MT-GLAZE 1K JA 1/16W
R2346	401 105 0504	MT-GLAZE 1K JA 1/16W
R2348	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R235	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2351	401 234 5609	MT-GLAZE 82K FA 1/16W
R2352	401 105 0603	MT-GLAZE 10K JA 1/16W
R2353	401 234 5609	MT-GLAZE 82K FA 1/16W
R2354	401 105 0603	MT-GLAZE 10K JA 1/16W
R2356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2357	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R2361	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R272	401 105 0405	MT-GLAZE 100 JA 1/16W
R2362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R274	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2369	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R277	401 105 0405	MT-GLAZE 100 JA 1/16W
R2370	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R278	401 105 0405	MT-GLAZE 100 JA 1/16W
R2371	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R279	401 105 0306	MT-GLAZE 10 JA 1/16W
R2372	401 105 0405	MT-GLAZE 100 JA 1/16W	R280	401 105 0900	MT-GLAZE 120 JA 1/16W
R2373	401 105 0405	MT-GLAZE 100 JA 1/16W	R281	401 105 0603	MT-GLAZE 10K JA 1/16W
R2374	401 105 0405	MT-GLAZE 100 JA 1/16W	R282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R283	401 105 0306	MT-GLAZE 10 JA 1/16W
R2380	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R286	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R2382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R287	401 105 0603	MT-GLAZE 10K JA 1/16W
R2383	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2385	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R289	401 105 0405	MT-GLAZE 100 JA 1/16W
R2387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R291	401 105 0405	MT-GLAZE 100 JA 1/16W
R2388	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R292	401 105 0405	MT-GLAZE 100 JA 1/16W
R2389	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R293	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R2390	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R294	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R2393	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R298	401 105 0900	MT-GLAZE 120 JA 1/16W
R2394	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R299	401 105 0900	MT-GLAZE 120 JA 1/16W
R2395	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R301	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2397	401 105 1600	MT-GLAZE 15K JA 1/16W	R304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2402	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R308	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2405	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3102	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R2406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3103	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R2407	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3104	401 105 0405	MT-GLAZE 100 JA 1/16W
R2408	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3106	401 105 0405	MT-GLAZE 100 JA 1/16W
R2410	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3107	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2411	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3108	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R244	401 105 0405	MT-GLAZE 100 JA 1/16W	R311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R245	401 105 0405	MT-GLAZE 100 JA 1/16W	R3114	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R247	401 105 0504	MT-GLAZE 1K JA 1/16W	R3116	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R248	401 105 0405	MT-GLAZE 100 JA 1/16W	R3117	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R249	401 105 0504	MT-GLAZE 1K JA 1/16W	R3118	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R250	401 105 0405	MT-GLAZE 100 JA 1/16W	R3119	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2501	401 105 0504	MT-GLAZE 1K JA 1/16W	R312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2502	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3121	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2503	401 105 5905	MT-GLAZE 560 JA 1/16W	R3122	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3123	401 105 0603	MT-GLAZE 10K JA 1/16W
R2505	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3124	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2506	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3125	401 177 2406	MT-GLAZE 10M JA 1/16W
R2507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3128	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2508	401 105 0504	MT-GLAZE 1K JA 1/16W	R3129	401 177 2406	MT-GLAZE 10M JA 1/16W
R2509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R251	401 105 0504	MT-GLAZE 1K JA 1/16W	R3131	401 105 3406	MT-GLAZE 27K JA 1/16W
R252	401 105 0405	MT-GLAZE 100 JA 1/16W	R3132	401 105 7503	MT-GLAZE 82K JA 1/16W
R253	401 105 0504	MT-GLAZE 1K JA 1/16W	R3133	401 105 1006	MT-GLAZE 1.2K JA 1/16W
R2531	401 105 0504	MT-GLAZE 1K JA 1/16W	R3134	401 105 0504	MT-GLAZE 1K JA 1/16W
R2532	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R3136	401 105 0504	MT-GLAZE 1K JA 1/16W
R2533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3137	401 105 0405	MT-GLAZE 100 JA 1/16W
R2536	401 148 6006	MT-GLAZE 2.2 JA 1/16W	R3139	401 105 0504	MT-GLAZE 1K JA 1/16W
R2538	401 105 0504	MT-GLAZE 1K JA 1/16W	R3141	401 105 5905	MT-GLAZE 560 JA 1/16W
R2539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3142	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R2561	401 105 0504	MT-GLAZE 1K JA 1/16W	R3143	401 105 0504	MT-GLAZE 1K JA 1/16W
R2562	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3144	401 105 5905	MT-GLAZE 560 JA 1/16W
R257	401 105 0504	MT-GLAZE 1K JA 1/16W	R3145	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R258	401 105 0504	MT-GLAZE 1K JA 1/16W	R3146	401 105 0504	MT-GLAZE 1K JA 1/16W
R2591	401 113 4808	MT-GLAZE 160 JA 1/16W	R3147	401 105 5905	MT-GLAZE 560 JA 1/16W
R2592	401 113 4808	MT-GLAZE 160 JA 1/16W	R3148	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R260	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3149	401 105 0504	MT-GLAZE 1K JA 1/16W
R261	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3160	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R262	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3161	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R263	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3162	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R265	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3163	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R269	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3164	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R270	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3166	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R271	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R3167	401 105 4106	MT-GLAZE 3.3K JA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R3168	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R379	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R317	401 105 0306	MT-GLAZE 10 JA 1/16W	R382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3171	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R384	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3172	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R387	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3173	401 105 4106	MT-GLAZE 3.3K JA 1/16W	R392	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3174	401 105 0504	MT-GLAZE 1K JA 1/16W	R394	401 105 0603	MT-GLAZE 10K JA 1/16W
R3176	401 105 0504	MT-GLAZE 1K JA 1/16W	R396	401 105 0603	MT-GLAZE 10K JA 1/16W
R3177	401 105 0504	MT-GLAZE 1K JA 1/16W	R398	401 105 0603	MT-GLAZE 10K JA 1/16W
R3178	401 105 0405	MT-GLAZE 100 JA 1/16W	R401	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3179	401 105 0405	MT-GLAZE 100 JA 1/16W	R402	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R403	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3181	401 105 0405	MT-GLAZE 100 JA 1/16W	R404	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R320	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R406	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R407	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R408	401 105 0504	MT-GLAZE 1K JA 1/16W
R3213	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R412	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3214	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R413	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R322	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R414	401 105 0504	MT-GLAZE 1K JA 1/16W
R3221	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R415	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3222	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R418	401 105 0504	MT-GLAZE 1K JA 1/16W
R3223	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R419	401 105 0504	MT-GLAZE 1K JA 1/16W
R3224	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R420	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3239	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4201	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3240	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4202	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3241	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3242	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4205	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3243	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4207	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3251	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4208	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3252	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4209	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3253	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4211	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3254	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4213	401 105 0405	MT-GLAZE 100 JA 1/16W
R326	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4216	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3269	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4217	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R327	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R422	401 105 0306	MT-GLAZE 10 JA 1/16W
R3270	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R423	401 105 0306	MT-GLAZE 10 JA 1/16W
R3271	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4231	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3272	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4232	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3273	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R424	401 105 0306	MT-GLAZE 10 JA 1/16W
R328	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4241	401 105 0306	MT-GLAZE 10 JA 1/16W
R330	401 105 0306	MT-GLAZE 10 JA 1/16W	R4243	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R332	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4246	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R333	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4248	401 113 4600	MT-GLAZE 110 JA 1/16W
R334	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4251	401 113 4600	MT-GLAZE 110 JA 1/16W
R336	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4252	401 105 0306	MT-GLAZE 10 JA 1/16W
R337	401 105 0603	MT-GLAZE 10K JA 1/16W	R4253	401 105 0306	MT-GLAZE 10 JA 1/16W
R338	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4254	401 113 5003	MT-GLAZE 240 JA 1/16W
R341	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4256	401 113 5003	MT-GLAZE 240 JA 1/16W
R342	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R4263	401 105 0306	MT-GLAZE 10 JA 1/16W
R343	401 105 2003	MT-GLAZE 1.8K JA 1/16W	R4264	401 105 0306	MT-GLAZE 10 JA 1/16W
R344	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4268	401 105 0306	MT-GLAZE 10 JA 1/16W
R345	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4269	401 105 0306	MT-GLAZE 10 JA 1/16W
R352	401 105 0603	MT-GLAZE 10K JA 1/16W	R4274	401 105 0306	MT-GLAZE 10 JA 1/16W
R354	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4275	401 105 0306	MT-GLAZE 10 JA 1/16W
R356	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4278	401 105 0603	MT-GLAZE 10K JA 1/16W
R358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4281	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R359	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4282	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4283	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4284	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R363	401 105 4007	MT-GLAZE 330 JA 1/16W	R4285	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R364	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4286	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R366	401 105 0603	MT-GLAZE 10K JA 1/16W	R4287	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R368	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4288	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R369	401 105 0603	MT-GLAZE 10K JA 1/16W	R4289	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R370	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4295	401 105 0405	MT-GLAZE 100 JA 1/16W
R371	401 105 0603	MT-GLAZE 10K JA 1/16W	R4296	401 105 0405	MT-GLAZE 100 JA 1/16W
R373	401 105 0603	MT-GLAZE 10K JA 1/16W	R431	401 105 0306	MT-GLAZE 10 JA 1/16W
R376	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R432	401 105 0306	MT-GLAZE 10 JA 1/16W

Key No.	Part No.	Description
R433	401 105 0306	MT-GLAZE 10 JA 1/16W
R434	401 105 0306	MT-GLAZE 10 JA 1/16W
R436	401 105 0306	MT-GLAZE 10 JA 1/16W
R437	401 105 0306	MT-GLAZE 10 JA 1/16W
R438	401 105 0306	MT-GLAZE 10 JA 1/16W
R439	401 105 0306	MT-GLAZE 10 JA 1/16W
R441	401 105 0306	MT-GLAZE 10 JA 1/16W
R442	401 105 0306	MT-GLAZE 10 JA 1/16W
R443	401 105 0306	MT-GLAZE 10 JA 1/16W
R444	401 105 0306	MT-GLAZE 10 JA 1/16W
R446	401 105 0306	MT-GLAZE 10 JA 1/16W
R4501	401 105 4007	MT-GLAZE 330 JA 1/16W
R4502	401 105 5202	MT-GLAZE 470 JA 1/16W
R4503	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4504	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4506	401 105 6506	MT-GLAZE 680 JA 1/16W
R4507	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4508	401 105 0504	MT-GLAZE 1K JA 1/16W
R4509	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R451	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4511	401 105 0504	MT-GLAZE 1K JA 1/16W
R4512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4513	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4514	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4515	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R4516	401 105 1402	MT-GLAZE 150 JA 1/16W
R4517	401 105 0504	MT-GLAZE 1K JA 1/16W
R4518	401 105 1402	MT-GLAZE 150 JA 1/16W
R4519	401 105 1402	MT-GLAZE 150 JA 1/16W
R452	401 105 0306	MT-GLAZE 10 JA 1/16W
R4521	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4523	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4524	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4526	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4527	401 105 0603	MT-GLAZE 10K JA 1/16W
R453	401 105 0306	MT-GLAZE 10 JA 1/16W
R4532	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4533	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4534	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4539	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R454	401 105 0306	MT-GLAZE 10 JA 1/16W
R4541	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4542	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R4543	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R4544	401 105 4007	MT-GLAZE 330 JA 1/16W
R4545	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4547	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4548	401 105 0504	MT-GLAZE 1K JA 1/16W
R4549	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4550	401 105 0504	MT-GLAZE 1K JA 1/16W
R4553	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4555	401 230 2503	MT-GLAZE 1K FA 1/16W
R4559	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R456	401 105 0306	MT-GLAZE 10 JA 1/16W
R4562	401 230 2503	MT-GLAZE 1K FA 1/16W
R4566	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4568	401 230 2503	MT-GLAZE 1K FA 1/16W
R457	401 105 0306	MT-GLAZE 10 JA 1/16W
R4571	401 105 5202	MT-GLAZE 470 JA 1/16W
R4572	401 105 0603	MT-GLAZE 10K JA 1/16W
R4573	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4574	401 105 5202	MT-GLAZE 470 JA 1/16W
R4575	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4576	401 105 5202	MT-GLAZE 470 JA 1/16W
R4577	401 105 5202	MT-GLAZE 470 JA 1/16W
R4578	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4579	401 105 6506	MT-GLAZE 680 JA 1/16W
R458	401 105 0306	MT-GLAZE 10 JA 1/16W
R4581	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R459	401 105 0504	MT-GLAZE 1K JA 1/16W
R4590	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4596	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4597	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4598	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4599	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4651	401 105 0504	MT-GLAZE 1K JA 1/16W
R4652	401 105 0504	MT-GLAZE 1K JA 1/16W
R4663	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4664	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4666	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4682	401 105 3505	MT-GLAZE 270K JA 1/16W
R4683	401 105 4700	MT-GLAZE 39K JA 1/16W
R4684	401 105 8005	MT-GLAZE 1M JA 1/16W
R4685	401 105 0405	MT-GLAZE 100 JA 1/16W
R4686	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R4687	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R4801	401 105 0603	MT-GLAZE 10K JA 1/16W
R4802	401 105 0405	MT-GLAZE 100 JA 1/16W
R4803	401 105 0603	MT-GLAZE 10K JA 1/16W
R4804	401 105 0405	MT-GLAZE 100 JA 1/16W
R4805	401 105 0603	MT-GLAZE 10K JA 1/16W
R4806	401 105 0405	MT-GLAZE 100 JA 1/16W
R4807	401 105 0504	MT-GLAZE 1K JA 1/16W
R4808	401 105 0504	MT-GLAZE 1K JA 1/16W
R4809	401 105 5202	MT-GLAZE 470 JA 1/16W
R481	401 105 0306	MT-GLAZE 10 JA 1/16W
R4811	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4812	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R4814	401 105 0405	MT-GLAZE 100 JA 1/16W
R4815	401 105 2904	MT-GLAZE 22K JA 1/16W
R4816	401 105 5202	MT-GLAZE 470 JA 1/16W
R4817	401 105 0405	MT-GLAZE 100 JA 1/16W
R482	401 105 0306	MT-GLAZE 10 JA 1/16W
R4822	401 105 0603	MT-GLAZE 10K JA 1/16W
R4823	401 105 4502	MT-GLAZE 390 JA 1/16W
R4824	401 105 4502	MT-GLAZE 390 JA 1/16W
R4825	401 105 4502	MT-GLAZE 390 JA 1/16W
R4826	401 105 2904	MT-GLAZE 22K JA 1/16W
R4827	401 105 2904	MT-GLAZE 22K JA 1/16W
R4828	401 105 0405	MT-GLAZE 100 JA 1/16W
R4829	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R483	401 105 0306	MT-GLAZE 10 JA 1/16W
R4831	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4834	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4835	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4837	401 105 2904	MT-GLAZE 22K JA 1/16W
R4838	401 036 1403	MT-GLAZE 220 JA 1/8W
R4839	401 105 4700	MT-GLAZE 39K JA 1/16W
R4841	401 105 0603	MT-GLAZE 10K JA 1/16W
R4844	401 105 0306	MT-GLAZE 10 JA 1/16W
R4845	401 105 0306	MT-GLAZE 10 JA 1/16W
R4847	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4861	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
R4862	401 105 0405	MT-GLAZE 100 JA 1/16W
R4863	401 105 0405	MT-GLAZE 100 JA 1/16W
R4871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4878	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4879	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4897	401 105 0504	MT-GLAZE 1K JA 1/16W
R501	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R503	401 105 7909	MT-GLAZE 0.000 ZA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R507	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R509	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R512	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5888	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R513	401 105 0504	MT-GLAZE 1K JA 1/16W	R6316	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R514	401 105 0306	MT-GLAZE 10 JA 1/16W	R6317	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R517	401 105 0504	MT-GLAZE 1K JA 1/16W	R6318	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R518	401 105 0504	MT-GLAZE 1K JA 1/16W	R6319	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R521	401 105 0306	MT-GLAZE 10 JA 1/16W	R7801	401 105 0405	MT-GLAZE 100 JA 1/16W
R522	401 105 0306	MT-GLAZE 10 JA 1/16W	R7802	401 105 0405	MT-GLAZE 100 JA 1/16W
R523	401 105 0306	MT-GLAZE 10 JA 1/16W	R7806	401 105 0504	MT-GLAZE 1K JA 1/16W
R524	401 105 0306	MT-GLAZE 10 JA 1/16W	R7807	401 105 0504	MT-GLAZE 1K JA 1/16W
R531	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R533	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7809	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R537	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R542	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7816	401 036 2707	MT-GLAZE 270 JA 1/8W
R543	401 105 0504	MT-GLAZE 1K JA 1/16W	R7821	401 105 0504	MT-GLAZE 1K JA 1/16W
R544	401 105 0306	MT-GLAZE 10 JA 1/16W	R7823	401 105 0504	MT-GLAZE 1K JA 1/16W
R547	401 105 0504	MT-GLAZE 1K JA 1/16W	R7824	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R548	401 105 0504	MT-GLAZE 1K JA 1/16W	R7826	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R551	401 105 0306	MT-GLAZE 10 JA 1/16W	R7827	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R552	401 105 0306	MT-GLAZE 10 JA 1/16W	R7828	401 105 2409	MT-GLAZE 2K JA 1/16W
R553	401 105 0306	MT-GLAZE 10 JA 1/16W	R7829	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R554	401 105 0306	MT-GLAZE 10 JA 1/16W	R7831	401 105 0603	MT-GLAZE 10K JA 1/16W
R561	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7832	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R563	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7833	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R567	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7834	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R568	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7835	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R572	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7836	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R573	401 105 0504	MT-GLAZE 1K JA 1/16W	R7837	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R574	401 105 0306	MT-GLAZE 10 JA 1/16W	R7838	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R577	401 105 0504	MT-GLAZE 1K JA 1/16W	R7839	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R578	401 105 0504	MT-GLAZE 1K JA 1/16W	R7841	401 105 0504	MT-GLAZE 1K JA 1/16W
R5801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7843	401 105 0504	MT-GLAZE 1K JA 1/16W
R5803	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7844	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R5805	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7845	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R5806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7846	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R581	401 105 0306	MT-GLAZE 10 JA 1/16W	R7847	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5811	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7848	401 105 2409	MT-GLAZE 2K JA 1/16W
R5813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7849	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5816	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7850	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5818	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7851	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R582	401 105 0306	MT-GLAZE 10 JA 1/16W	R7852	401 105 0603	MT-GLAZE 10K JA 1/16W
R583	401 105 0306	MT-GLAZE 10 JA 1/16W	R7854	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R5831	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7856	401 105 0603	MT-GLAZE 10K JA 1/16W
R5833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7861	401 105 0504	MT-GLAZE 1K JA 1/16W
R5836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7863	401 105 0504	MT-GLAZE 1K JA 1/16W
R5838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7864	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R584	401 105 0306	MT-GLAZE 10 JA 1/16W	R7866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5841	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7867	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R5843	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7868	401 105 2409	MT-GLAZE 2K JA 1/16W
R5846	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7871	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R5848	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7872	401 105 0603	MT-GLAZE 10K JA 1/16W
R5851	401 105 0603	MT-GLAZE 10K JA 1/16W	R7881	401 105 0504	MT-GLAZE 1K JA 1/16W
R5852	401 105 1600	MT-GLAZE 15K JA 1/16W	R7883	401 105 0504	MT-GLAZE 1K JA 1/16W
R5853	401 105 0603	MT-GLAZE 10K JA 1/16W	R7884	401 105 6605	MT-GLAZE 6.8K JA 1/16W
R5854	401 113 6406	MT-GLAZE 5.1K JA 1/16W	R7886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5856	401 105 5301	MT-GLAZE 4.7K JA 1/16W	R7887	401 113 6703	MT-GLAZE 9.1K JA 1/16W
R5861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7888	401 105 2409	MT-GLAZE 2K JA 1/16W
R5863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7891	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R5866	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R7892	401 105 0603	MT-GLAZE 10K JA 1/16W
R5868	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8001	401 105 4007	MT-GLAZE 330 JA 1/16W
R5869	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8002	401 105 3109	MT-GLAZE 27 JA 1/16W
R5871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8006	401 105 4205	MT-GLAZE 33K JA 1/16W
R5873	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8008	401 105 0603	MT-GLAZE 10K JA 1/16W
R5876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R801	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R5878	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8011	401 105 0603	MT-GLAZE 10K JA 1/16W
R5881	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R8012	401 105 4205	MT-GLAZE 33K JA 1/16W

Key No.	Part No.	Description
R8013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8014	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8016	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R8019	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R802	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R8026	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8027	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R803	401 105 0405	MT-GLAZE 100 JA 1/16W
R8036	401 105 0405	MT-GLAZE 100 JA 1/16W
R8037	401 105 0405	MT-GLAZE 100 JA 1/16W
R8038	401 105 0405	MT-GLAZE 100 JA 1/16W
R8039	401 105 0405	MT-GLAZE 100 JA 1/16W
R804	401 105 0405	MT-GLAZE 100 JA 1/16W
R806	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8061	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8062	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8063	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8064	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8071	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8072	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8073	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8074	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8082	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8083	401 105 0603	MT-GLAZE 10K JA 1/16W
R8084	401 105 0603	MT-GLAZE 10K JA 1/16W
R8086	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8087	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8093	401 105 0603	MT-GLAZE 10K JA 1/16W
R8094	401 105 0603	MT-GLAZE 10K JA 1/16W
R8096	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8097	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8098	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8101	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8102	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8103	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8104	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8106	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8108	401 105 0603	MT-GLAZE 10K JA 1/16W
R811	401 105 0603	MT-GLAZE 10K JA 1/16W
R8111	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8112	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8113	401 105 4007	MT-GLAZE 330 JA 1/16W
R8114	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R8116	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R8117	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R815	401 105 0405	MT-GLAZE 100 JA 1/16W
R816	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R817	401 105 0405	MT-GLAZE 100 JA 1/16W
R818	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R819	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R820	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R822	401 105 0603	MT-GLAZE 10K JA 1/16W
R823	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R824	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R825	401 105 4502	MT-GLAZE 390 JA 1/16W
R826	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R827	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R828	401 105 2904	MT-GLAZE 22K JA 1/16W
R829	401 105 2904	MT-GLAZE 22K JA 1/16W
R831	401 105 0900	MT-GLAZE 120 JA 1/16W
R832	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R833	401 105 0603	MT-GLAZE 10K JA 1/16W
R8341	401 105 0603	MT-GLAZE 10K JA 1/16W
R835	401 105 2607	MT-GLAZE 22 JA 1/16W
R836	401 105 0603	MT-GLAZE 10K JA 1/16W
R838	401 105 0603	MT-GLAZE 10K JA 1/16W
R839	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R841	401 105 8203	MT-GLAZE 68K JA 1/16W
R842	401 105 8203	MT-GLAZE 68K JA 1/16W
R843	401 105 0504	MT-GLAZE 1K JA 1/16W
R846	401 105 0603	MT-GLAZE 10K JA 1/16W
R848	401 105 2904	MT-GLAZE 22K JA 1/16W
R849	401 105 2904	MT-GLAZE 22K JA 1/16W
R850	401 105 0603	MT-GLAZE 10K JA 1/16W
R8511	401 105 2904	MT-GLAZE 22K JA 1/16W
R854	401 105 0603	MT-GLAZE 10K JA 1/16W
R855	401 105 0405	MT-GLAZE 100 JA 1/16W
R856	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R857	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R858	401 105 0603	MT-GLAZE 10K JA 1/16W
R860	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8601	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R8603	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R861	401 105 0603	MT-GLAZE 10K JA 1/16W
R863	401 105 0603	MT-GLAZE 10K JA 1/16W
R866	401 105 0405	MT-GLAZE 100 JA 1/16W
R867	401 105 0405	MT-GLAZE 100 JA 1/16W
R868	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R869	401 105 0603	MT-GLAZE 10K JA 1/16W
R872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R874	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R875	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R878	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R879	401 105 0603	MT-GLAZE 10K JA 1/16W
R881	401 105 0603	MT-GLAZE 10K JA 1/16W
R882	401 105 0603	MT-GLAZE 10K JA 1/16W
R883	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R884	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R887	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R888	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R889	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R890	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R891	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R892	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R893	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R894	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R895	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R896	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R897	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R898	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R899	401 105 0603	MT-GLAZE 10K JA 1/16W
R9000	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9001	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9401	401 105 0603	MT-GLAZE 10K JA 1/16W
R9402	401 105 0603	MT-GLAZE 10K JA 1/16W
R9407	401 105 0603	MT-GLAZE 10K JA 1/16W
R9408	401 105 0603	MT-GLAZE 10K JA 1/16W
R9409	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9410	401 105 0603	MT-GLAZE 10K JA 1/16W
R9413	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9414	401 105 0306	MT-GLAZE 10 JA 1/16W
R9419	401 105 0603	MT-GLAZE 10K JA 1/16W
R9421	401 105 0603	MT-GLAZE 10K JA 1/16W
R9422	401 105 0603	MT-GLAZE 10K JA 1/16W
R9423	401 105 0603	MT-GLAZE 10K JA 1/16W
R9426	401 105 0603	MT-GLAZE 10K JA 1/16W
R9427	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description
R9429	401 105 0603	MT-GLAZE 10K JA 1/16W
R9431	401 105 0603	MT-GLAZE 10K JA 1/16W
R9432	401 105 0306	MT-GLAZE 10 JA 1/16W
R9433	401 105 0405	MT-GLAZE 100 JA 1/16W
R9434	401 105 1907	MT-GLAZE 180 JA 1/16W
R9436	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9437	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9438	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9439	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9441	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9442	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9444	401 105 0603	MT-GLAZE 10K JA 1/16W
R9445	401 105 0603	MT-GLAZE 10K JA 1/16W
R9446	401 105 0603	MT-GLAZE 10K JA 1/16W
R9449	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9450	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9451	401 105 0306	MT-GLAZE 10 JA 1/16W
R9452	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9455	401 105 0603	MT-GLAZE 10K JA 1/16W
R9456	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9457	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9458	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9459	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9460	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9461	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9463	401 105 0306	MT-GLAZE 10 JA 1/16W
R9464	401 105 0306	MT-GLAZE 10 JA 1/16W
R9467	401 105 4007	MT-GLAZE 330 JA 1/16W
R9468	401 105 0405	MT-GLAZE 100 JA 1/16W
R9469	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9471	401 105 0603	MT-GLAZE 10K JA 1/16W
R9472	401 105 0603	MT-GLAZE 10K JA 1/16W
R9473	401 105 0603	MT-GLAZE 10K JA 1/16W
R9474	401 105 0603	MT-GLAZE 10K JA 1/16W
R9475	401 105 0603	MT-GLAZE 10K JA 1/16W
R9476	401 105 0603	MT-GLAZE 10K JA 1/16W
R9477	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9478	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9479	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9482	401 105 0603	MT-GLAZE 10K JA 1/16W
R9483	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9484	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9486	401 105 0603	MT-GLAZE 10K JA 1/16W
R9487	401 105 4007	MT-GLAZE 330 JA 1/16W
R9488	401 105 0405	MT-GLAZE 100 JA 1/16W
R9491	401 105 7305	MT-GLAZE 820 JA 1/16W
R9495	401 105 0405	MT-GLAZE 100 JA 1/16W
R9501	401 105 0603	MT-GLAZE 10K JA 1/16W
R9502	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9503	401 105 0603	MT-GLAZE 10K JA 1/16W
R9504	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9505	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9506	401 105 0603	MT-GLAZE 10K JA 1/16W
R9507	401 105 0603	MT-GLAZE 10K JA 1/16W
R9508	401 105 0603	MT-GLAZE 10K JA 1/16W
R9509	401 105 0603	MT-GLAZE 10K JA 1/16W
R9510	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9514	401 105 0603	MT-GLAZE 10K JA 1/16W
R9516	401 105 0603	MT-GLAZE 10K JA 1/16W
R9517	401 105 0603	MT-GLAZE 10K JA 1/16W
R9518	401 105 0603	MT-GLAZE 10K JA 1/16W
R9519	401 105 0603	MT-GLAZE 10K JA 1/16W
R9801	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R9803	401 105 8005	MT-GLAZE 1M JA 1/16W
R9804	401 105 0405	MT-GLAZE 100 JA 1/16W
R9805	401 105 0405	MT-GLAZE 100 JA 1/16W
R9806	401 105 0405	MT-GLAZE 100 JA 1/16W
R9807	401 105 0405	MT-GLAZE 100 JA 1/16W
R9808	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9812	401 105 5400	MT-GLAZE 47K JA 1/16W
R9813	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9814	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9816	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9817	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R9819	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9821	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9825	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9826	401 105 0405	MT-GLAZE 100 JA 1/16W
R9827	401 105 0504	MT-GLAZE 1K JA 1/16W
R9829	401 105 0603	MT-GLAZE 10K JA 1/16W
R9851	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9852	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9853	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9854	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9856	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9857	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9858	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9859	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9861	401 105 0405	MT-GLAZE 100 JA 1/16W
R9862	401 105 0405	MT-GLAZE 100 JA 1/16W
R9863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9864	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9866	401 105 8005	MT-GLAZE 1M JA 1/16W
R9867	401 105 0405	MT-GLAZE 100 JA 1/16W
R9868	401 105 0405	MT-GLAZE 100 JA 1/16W
R9869	401 105 0405	MT-GLAZE 100 JA 1/16W
R9871	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9872	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9884	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9885	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9886	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9887	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9888	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9889	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9890	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9891	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9892	401 105 0405	MT-GLAZE 100 JA 1/16W
R9893	401 105 0405	MT-GLAZE 100 JA 1/16W
R9894	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9895	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9896	401 105 8005	MT-GLAZE 1M JA 1/16W
R9897	401 105 0405	MT-GLAZE 100 JA 1/16W
R9898	401 105 0405	MT-GLAZE 100 JA 1/16W
R9899	401 105 0405	MT-GLAZE 100 JA 1/16W
R9900	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9901	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9931	401 105 0405	MT-GLAZE 100 JA 1/16W
R9932	401 105 0405	MT-GLAZE 100 JA 1/16W
R9933	401 105 0405	MT-GLAZE 100 JA 1/16W
R9934	401 105 0603	MT-GLAZE 10K JA 1/16W
R9936	401 105 2508	MT-GLAZE 20K JA 1/16W
R9994	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R9996	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
TRANSFORMER		
T1151	645 044 3626	FILTER,LP 7MHZ
T1161	645 044 3626	FILTER,LP 7MHZ
T161	645 044 3626	FILTER,LP 7MHZ
COIL		
L1101	645 026 0964	INDUCTOR,10U K
L1102	645 026 0964	INDUCTOR,10U K
L1103	645 026 0964	INDUCTOR,10U K
L1104	645 026 0971	INDUCTOR,15U K

Key No.	Part No.	Description
L1105	645 026 0964	INDUCTOR,10U K
L1151	645 026 1008	INDUCTOR,3.3U M
L1161	645 026 0964	INDUCTOR,10U K
L1501	645 020 1776	INDUCTOR,3.3U M
L1502	645 020 1776	INDUCTOR,3.3U M
L1531	645 020 1776	INDUCTOR,3.3U M
L1532	645 020 1776	INDUCTOR,3.3U M
L1561	645 020 1776	INDUCTOR,3.3U M
L1562	645 020 1776	INDUCTOR,3.3U M
L201	645 020 1776	INDUCTOR,3.3U M
L202	645 020 1776	INDUCTOR,3.3U M
L203	645 020 1776	INDUCTOR,3.3U M
L2101	645 021 1669	INDUCTOR,22U J
L2102	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L2103	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L2116	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L2351	645 050 8448	IMPEDANCE,1000 OHM P
L2361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L2381	645 050 8448	IMPEDANCE,1000 OHM P
L2382	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L241	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2501	645 021 1669	INDUCTOR,22U J
L2531	645 021 1669	INDUCTOR,22U J
L2591	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L2592	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L3101	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L3102	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L3102TM1	645 030 5900	INDUCTOR,600 OHM
L3102TM2	645 030 5900	INDUCTOR,600 OHM
L3103	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
L3103TM1	645 030 5900	INDUCTOR,600 OHM
L3103TM2	645 030 5900	INDUCTOR,600 OHM
L3161	645 021 1669	INDUCTOR,22U J
L3162	645 021 1669	INDUCTOR,22U J
L3163	645 026 0964	INDUCTOR,10U K
L3211	645 020 1776	INDUCTOR,3.3U M
L3221	645 020 1776	INDUCTOR,3.3U M
L3251	645 020 1776	INDUCTOR,3.3U M
L4214	645 030 5931	INDUCTOR,1300 OHM
L4231	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
L4232	645 001 4512	INDUCTOR,10U K
L4501	645 026 0964	INDUCTOR,10U K
L4541	645 050 8448	IMPEDANCE,1000 OHM P
L4581	645 021 1744	INDUCTOR,5.6U J
L4582	645 021 1744	INDUCTOR,5.6U J
L4583	645 021 1744	INDUCTOR,5.6U J
L4881	645 020 1776	INDUCTOR,3.3U M
L501	645 020 1776	INDUCTOR,3.3U M
L502	645 020 1776	INDUCTOR,3.3U M
L503	645 020 1776	INDUCTOR,3.3U M
L531	645 020 1776	INDUCTOR,3.3U M
L532	645 020 1776	INDUCTOR,3.3U M
L533	645 020 1776	INDUCTOR,3.3U M
L561	645 020 1776	INDUCTOR,3.3U M
L562	645 020 1776	INDUCTOR,3.3U M
L563	645 020 1776	INDUCTOR,3.3U M
L6301	645 050 8448	IMPEDANCE,1000 OHM P
L6302	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L6303	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L6304	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
L7801	645 026 1008	INDUCTOR,3.3U M
L8001	645 026 0988	INDUCTOR,2.2U M
L8002	645 026 0988	INDUCTOR,2.2U M
L8003	645 026 0988	INDUCTOR,2.2U M
L8004	645 026 0988	INDUCTOR,2.2U M
L9801	645 021 1645	INDUCTOR,2.2U J
DIODE		
D1101	407 149 0807	DIODE 1SS355-TE-17
D1102	407 149 0807	DIODE 1SS355-TE-17
D1103	407 149 0807	DIODE 1SS355-TE-17
D1104	407 149 0807	DIODE 1SS355-TE-17
D1106	407 149 0807	DIODE 1SS355-TE-17
D1107	407 149 0807	DIODE 1SS355-TE-17
D1108	407 149 0807	DIODE 1SS355-TE-17
D1109	407 149 0807	DIODE 1SS355-TE-17
D1111	407 149 0807	DIODE 1SS355-TE-17
D1112	407 149 0807	DIODE 1SS355-TE-17
D1113	407 149 0807	DIODE 1SS355-TE-17
D1114	407 149 0807	DIODE 1SS355-TE-17
D1117	407 149 0807	DIODE 1SS355-TE-17
D1431	407 149 0807	DIODE 1SS355-TE-17
D1451	407 149 0807	DIODE 1SS355-TE-17
D234	407 149 0807	DIODE 1SS355-TE-17
D235	407 149 0807	DIODE 1SS355-TE-17
D2351	407 149 0807	DIODE 1SS355-TE-17
D2353	407 149 0807	DIODE 1SS355-TE-17
D236	407 149 0807	DIODE 1SS355-TE-17
D2381	407 149 0807	DIODE 1SS355-TE-17
D2591	407 223 1607	ZENER DIODE 02DZ13Y(TPH3)
D2592	407 149 0807	DIODE 1SS355-TE-17
D3101	407 149 0807	DIODE 1SS355-TE-17
D3102	407 149 0807	DIODE 1SS355-TE-17
D3211	407 149 0807	DIODE 1SS355-TE-17
D3261	407 149 0807	DIODE 1SS355-TE-17
D3262	407 149 0807	DIODE 1SS355-TE-17
D391	407 149 0807	DIODE 1SS355-TE-17
D392	407 149 0807	DIODE 1SS355-TE-17
D4202	407 149 0807	DIODE 1SS355-TE-17
D4541	407 149 0807	DIODE 1SS355-TE-17
D4552	407 149 0807	DIODE 1SS355-TE-17
D4681	407 149 0807	DIODE 1SS355-TE-17
D4801	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4802	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4803	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4804	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4805	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4806	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4807	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4808	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D4809	407 149 0807	DIODE 1SS355-TE-17
D4810	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4811	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4812	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4813	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D4814	407 149 0807	DIODE 1SS355-TE-17
D4815	407 149 0807	DIODE 1SS355-TE-17
D4816	407 149 0807	DIODE 1SS355-TE-17
D4817	407 149 0807	DIODE 1SS355-TE-17
D4818	407 149 0807	DIODE 1SS355-TE-17
D4819	407 149 0807	DIODE 1SS355-TE-17
D6301	407 149 0807	DIODE 1SS355-TE-17
D7801	407 071 0104	ZENER DIODE DZD12Y-TA
	407 175 2806	ZD 02CZ12Y(TE85R)
D7831	407 149 0807	DIODE 1SS355-TE-17
D7832	407 149 0807	DIODE 1SS355-TE-17
D7851	407 149 0807	DIODE 1SS355-TE-17
D7852	407 149 0807	DIODE 1SS355-TE-17
D7871	407 149 0807	DIODE 1SS355-TE-17
D7872	407 149 0807	DIODE 1SS355-TE-17
D7891	407 149 0807	DIODE 1SS355-TE-17
D7892	407 149 0807	DIODE 1SS355-TE-17
D8001	407 149 0807	DIODE 1SS355-TE-17
D801	407 149 0807	DIODE 1SS355-TE-17
D8033	407 149 0807	DIODE 1SS355-TE-17

Key No.	Part No.	Description
D8061	407 201 2701	DIODE RB051L-40-TE25
D8062	407 201 2701	DIODE RB051L-40-TE25
D8063	407 149 0807	DIODE 1SS355-TE-17
D8064	407 149 0807	DIODE 1SS355-TE-17
D8066	407 149 0807	DIODE 1SS355-TE-17
D8067	407 149 0807	DIODE 1SS355-TE-17
D8068	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
IC1876	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
IC1877	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
IC806	407 221 9704	SENSOR MPXA4115A6T1
X1101	645 045 9122	OSC,CRYSTAL 20MHZ
X3101	645 047 1568	OSC,CRYSTAL 16.200MHZ
X361	645 047 6587	OSC,CRYSTAL 26.000MHZ
X362	645 047 6846	OSC,CRYSTAL 24.000MHZ
X801	645 053 4973	OSC,CRYSTAL 6.4512MHZ
X9801	645 035 8906	OSC,CRYSTAL 48MHZ
X9851	645 035 2249	OSC,CRYSTAL 6.7584MHZ
X9884	645 035 2249	OSC,CRYSTAL 6.7584MHZ

MAIN Board includes V GATE Board as follows:

ASSY,PWB,V GATE MR3A (NOT SERVICE PARTS)

INTEGRATED CIRCUIT		
IC7209	409 422 5707	IC MC74HC08ADT
IC7210	409 301 5309	IC TC7S32FU-TE85L
CAPACITOR		
C7207	403 164 0204	CERAMIC 0.1U Z 25V
C7208	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R7201	401 105 0405	MT-GLAZE 100 JA 1/16W
R7202	401 105 0405	MT-GLAZE 100 JA 1/16W
R7203	401 105 0405	MT-GLAZE 100 JA 1/16W
R7204	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7205	401 105 0405	MT-GLAZE 100 JA 1/16W
R7206	401 105 0405	MT-GLAZE 100 JA 1/16W

POWER BOARD

610 305 1710 ASSY,PWB,POWER MR3A

TRANSISTOR		
Q601	405 161 9600	TR SPP20N60S5
Q602	405 161 9600	TR SPP20N60S5
Q621	405 014 4509	TR 2SC2412K T146 R
Q622	405 134 5905	TR 2SA1037AK-T146-R
Q623	405 014 4509	TR 2SC2412K T146 R
Q624	405 134 5905	TR 2SA1037AK-T146-R
Q681	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC601	409 523 1400	IC FA5502M
IC651	409 558 4209	IC STR-Z2156A
IC681	409 344 6509	IC UPC1093T-E1
CAPACITOR		
C607	403 260 1600	MT-POLYEST 1U J 400V
C608	403 222 1303	CERAMIC 1000P K 1K
C609	403 222 1303	CERAMIC 1000P K 1K
C611	403 260 1600	MT-POLYEST 1U J 400V
C612	403 356 1804	ELECT 220U M 35V
C613	403 341 6104	ELECT 100U M 25V
C614	403 341 6104	ELECT 100U M 25V
C616	404 093 9603	ELECT 390U M 450V
C618	403 323 8706	MT-POLYEST 0.047U K 450V
C619	403 298 9609	CERAMIC 0.1U K 16V
C621	403 205 2808	CERAMIC 0.047U K 25V
C622	403 157 6404	CERAMIC 330P K 50V
C623	403 215 2201	CERAMIC 0.01U K 50V
C624	403 164 0204	CERAMIC 0.1U Z 25V
C625	403 175 3706	ELECT 4.7U M 50V
C626	403 164 0204	CERAMIC 0.1U Z 25V
C627	403 164 0204	CERAMIC 0.1U Z 25V
C628	403 157 3304	CERAMIC 68P J 50V
C629	403 157 6602	CERAMIC 470P K 50V
C631	403 298 9609	CERAMIC 0.1U K 16V
C632	403 164 0204	CERAMIC 0.1U Z 25V
C633	403 164 0204	CERAMIC 0.1U Z 25V
C634	403 164 0204	CERAMIC 0.1U Z 25V
C636	403 323 8706	MT-POLYEST 0.047U K 450V
C651	403 162 6604	ELECT 2.2U M 50V
C652	403 237 7901	MT-COMPO 0.22U J 50V
C653	403 113 3805	CERAMIC 1000P K 50V
C654	403 247 3306	CERAMIC 330P K 2K
C656	403 164 0204	CERAMIC 0.1U Z 25V
C657	403 218 8804	CERAMIC 220P K 2K
C658	403 083 4307	POLYPRO 0.022U J 400V
C659	403 157 6800	CERAMIC 680P K 50V
C661	403 162 6208	ELECT 1U M 50V
C662	403 356 1804	ELECT 220U M 35V
C663	403 164 0204	CERAMIC 0.1U Z 25V
C664	403 281 5205	CERAMIC 0.22U Z 16V
C681	403 355 9504	ELECT 4700U M 25V
C682	403 164 0204	CERAMIC 0.1U Z 25V
C683	403 368 8808	ELECT 4700U M 10V
C684	403 164 0204	CERAMIC 0.1U Z 25V
C685	403 325 8605	ELECT 220U M 16V
C686	403 323 1301	CERAMIC 0.47U Z 10V
C688	403 164 0204	CERAMIC 0.1U Z 25V
C689	403 325 8506	ELECT 1000U M 16V
C692	403 323 8805	CERAMIC 2.2U Z 16V
RESISTOR		
R602	401 242 3901	MT-GLAZE 240K JA 1/2W
R603	401 242 3901	MT-GLAZE 240K JA 1/2W
R604	401 258 8204	MT-GLAZE 680 JA 1/3W
R606	402 080 8806	MT-GLAZE 680 KA 1W
R607	401 237 0007	MT-GLAZE 47K JA 1W
R608	401 237 0007	MT-GLAZE 47K JA 1W
R609	401 237 0007	MT-GLAZE 47K JA 1W
R610	401 237 0007	MT-GLAZE 47K JA 1W
R611	401 237 0007	MT-GLAZE 47K JA 1W
R612	401 237 0007	MT-GLAZE 47K JA 1W
R613	402 095 0604	RESISTER 0.15 JB 5W
R614	402 095 0604	RESISTER 0.15 JB 5W
R615	401 105 0405	MT-GLAZE 100 JA 1/16W
R616	401 105 0504	MT-GLAZE 1K JA 1/16W
R617	401 105 1600	MT-GLAZE 15K JA 1/16W
R618	401 105 0306	MT-GLAZE 10 JA 1/16W
R619	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R620	401 105 0405	MT-GLAZE 100 JA 1/16W
R621	401 105 2607	MT-GLAZE 22 JA 1/16W
R622	401 224 6005	MT-GLAZE 36K FA 1/16W
R623	401 105 4304	MT-GLAZE 330K JA 1/16W
R624	401 105 1907	MT-GLAZE 180 JA 1/16W
R625	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R626	401 105 4007	MT-GLAZE 330 JA 1/16W
R627	401 158 4108	MT-GLAZE 4.7 JA 1/16W
R628	401 105 0405	MT-GLAZE 100 JA 1/16W
R630	401 105 4502	MT-GLAZE 390 JA 1/16W
R631	401 105 0603	MT-GLAZE 10K JA 1/16W
R632	401 113 6307	MT-GLAZE 4.3K JA 1/16W
R633	401 105 5509	MT-GLAZE 470K JA 1/16W

Key No.	Part No.	Description
R634	401 105 3505	MT-GLAZE 270K JA 1/16W
R635	401 105 0405	MT-GLAZE 100 JA 1/16W
R636	401 105 0504	MT-GLAZE 1K JA 1/16W
R637	401 218 4406	MT-GLAZE 1.2K FA 1/16W
R638	401 259 9002	MT-GLAZE 150K FA 1/2W
R639	401 259 9002	MT-GLAZE 150K FA 1/2W
R641	401 259 9002	MT-GLAZE 150K FA 1/2W
R642	401 259 9002	MT-GLAZE 150K FA 1/2W
R643	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R644	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R646	401 105 1600	MT-GLAZE 15K JA 1/16W
R647	401 111 6309	MT-GLAZE 470 JA 1/2W
R648	401 111 6309	MT-GLAZE 470 JA 1/2W
R649	401 105 3000	MT-GLAZE 220K JA 1/16W
R650	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R651	401 237 0007	MT-GLAZE 47K JA 1W
R652	401 237 0007	MT-GLAZE 47K JA 1W
R653	401 237 0007	MT-GLAZE 47K JA 1W
R654	401 237 0007	MT-GLAZE 47K JA 1W
R655	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R656	401 237 0007	MT-GLAZE 47K JA 1W
R657	401 237 0007	MT-GLAZE 47K JA 1W
⚠R658	402 081 2902	FUSIBLE RES 22 JH 1/2W
R659	401 238 4509	MT-GLAZE 47 JA 1/3W
⚠R661	424 006 1302	FUSE 250V 2.5A
R671	401 105 0504	MT-GLAZE 1K JA 1/16W
R672	401 257 7406	MT-GLAZE 120 JA 1/3W
R673	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R674	401 105 0603	MT-GLAZE 10K JA 1/16W
R680	401 212 0206	MT-GLAZE 33K FA 1/16W
R681	401 105 0603	MT-GLAZE 10K JA 1/16W
R682	401 105 3208	MT-GLAZE 270 JA 1/16W
R683	401 105 0504	MT-GLAZE 1K JA 1/16W
R685	401 105 4601	MT-GLAZE 3.9K JA 1/16W
R686	401 105 0504	MT-GLAZE 1K JA 1/16W
R687	401 212 0503	MT-GLAZE 6.8K FA 1/16W
R689	401 105 0504	MT-GLAZE 1K JA 1/16W
R690	401 105 0306	MT-GLAZE 10 JA 1/16W
R691	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R692	401 105 0504	MT-GLAZE 1K JA 1/16W
R693	401 105 0603	MT-GLAZE 10K JA 1/16W
R694	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R695	401 105 0504	MT-GLAZE 1K JA 1/16W
R697	401 299 1608	MT-GLAZE 1 JE 1/2W
R698	401 299 1608	MT-GLAZE 1 JE 1/2W
R699	401 238 4202	MT-GLAZE 1.5K JA 1/3W
VARIABLE RESISTOR		
VR601	645 025 7414	VR,SEMI,1K S
VR681	645 025 7414	VR,SEMI,1K S
TRANSFORMER		
TSW601	645 026 4511	SWITCH,THERMAL
	645 043 3009	THERMOSTATS
T601	645 051 9369	INDUCTOR,625U
⚠T651	645 028 0641	TRANS,POWER,PULSE
COIL		
L603	645 052 6213	LINE FILTER
L651	645 020 1776	INDUCTOR,3.3U M
L681	645 048 5381	INDUCTOR,100U K
DIODE		
DB601	408 045 4906	DIODE RBV-1506 LF-B
	407 143 6003	DIODE RBV-1506
DS601	407 219 0805	THYRISTOR TF861S
DS602	407 219 0805	THYRISTOR TF861S
D601	407 190 4106	DIODE SFPL-52V
D602	407 190 4106	DIODE SFPL-52V
D603	407 149 6304	DIODE SFPB-54V
D604	407 225 4408	DIODE FMX-G26S
D605	407 223 0808	ZENER DIODE 02DZ22Y(TPH3)
D606	407 149 0807	DIODE 1SS355-TE-17
D607	407 149 0807	DIODE 1SS355-TE-17
D608	407 149 0807	DIODE 1SS355-TE-17
D609	407 149 0807	DIODE 1SS355-TE-17
D610	407 149 6304	DIODE SFPB-54V
D611	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D612	407 149 0807	DIODE 1SS355-TE-17
D614	407 149 0807	DIODE 1SS355-TE-17
D615	407 149 0807	DIODE 1SS355-TE-17
D651	407 190 4106	DIODE SFPL-52V
D652	407 075 5303	DIODE ERA38-06
D653	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D681	407 202 9808	DIODE FMB-26L
D682	407 202 9808	DIODE FMB-26L
D683	407 190 4106	DIODE SFPL-52V
D684	407 190 4106	DIODE SFPL-52V
D686	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
MISCELLANEOUS		
FB601	610 229 3531	CORE
FB602	610 229 3531	CORE
⚠PC601	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC602	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
⚠PC603	407 223 7302	PC TLP421F(D4-GB-TP4)
	407 223 8309	PC TLP421F(D4-GR-TP4)
PTH601	408 037 4600	THERMISTOR NTH11D8R0LA

SUB POWER BOARD

610 305 1727 ASSY,PWB,SUB POWER MR3A

TRANSISTOR		
Q6603	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q6604	405 014 4509	TR 2SC2412K T146 R
Q6609	405 014 4509	TR 2SC2412K T146 R
Q6611	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q6612	405 014 4509	TR 2SC2412K T146 R
Q6613	405 014 4509	TR 2SC2412K T146 R
Q6614	405 014 4509	TR 2SC2412K T146 R
Q6616	405 014 4509	TR 2SC2412K T146 R
Q6617	405 014 4509	TR 2SC2412K T146 R
Q6618	405 164 2707	TR SI9803DY
Q6622	405 156 0209	TR 2SK2376
Q6623	405 014 4509	TR 2SC2412K T146 R
Q6624	405 014 4509	TR 2SC2412K T146 R
Q6626	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q6627	405 047 9007	TR 2SB1204-S-TL
	405 047 9106	TR 2SB1204-T-TL
Q6628	405 014 4509	TR 2SC2412K T146 R
Q6629	405 156 0209	TR 2SK2376
Q6651	405 139 7706	TR IMZ1A-T108
Q6652	405 139 7706	TR IMZ1A-T108
Q6661	405 014 4509	TR 2SC2412K T146 R
INTEGRATED CIRCUIT		
IC6601	409 461 7809	IC PQ20WZ11
IC6602	409 531 6206	IC FA7701V-TE1
IC6603	409 531 6206	IC FA7701V-TE1
IC6607	409 461 7809	IC PQ20WZ11
IC6608	409 501 9206	IC LTC1622CS8

Key No.	Part No.	Description
IC6609	409 461 7809	IC PQ20WZ11
IC6611	409 344 6509	IC UPC1093T-E1
IC6612	409 344 6509	IC UPC1093T-E1
IC6616	409 531 6206	IC FA7701V-TE1
IC6621	409 497 6302	IC BA09FP-E2
IC6622	409 416 6505	IC BA05FP-E2
CAPACITOR		
C6601	403 164 0204	CERAMIC 0.1U Z 25V
C6602	403 164 0204	CERAMIC 0.1U Z 25V
C6603	403 229 3508	ELECT 100U M 16V
C6605	403 348 3700	ELECT 470U M 25V
C6606	403 333 0806	ELECT 1000U M 10V
C6608	403 348 3700	ELECT 470U M 25V
C6609	403 281 5205	CERAMIC 0.22U Z 16V
C6611	403 155 2309	CERAMIC 4700P K 50V
C6613	403 325 8506	ELECT 1000U M 16V
C6614	403 164 0204	CERAMIC 0.1U Z 25V
C6617	403 164 0204	CERAMIC 0.1U Z 25V
C6618	403 281 5205	CERAMIC 0.22U Z 16V
C6619	403 325 8506	ELECT 1000U M 16V
C6620	403 164 0204	CERAMIC 0.1U Z 25V
C6621	403 155 2309	CERAMIC 4700P K 50V
C6622	403 229 3508	ELECT 100U M 16V
C6624	403 348 3700	ELECT 470U M 25V
C6625	403 164 0204	CERAMIC 0.1U Z 25V
C6626	403 164 0204	CERAMIC 0.1U Z 25V
C6627	403 325 8506	ELECT 1000U M 16V
C6628	403 333 0806	ELECT 1000U M 10V
C6629	403 325 8605	ELECT 220U M 16V
C6632	403 325 8506	ELECT 1000U M 16V
C6633	403 334 6906	ELECT 1000U M 6.3V
C6634	403 334 6906	ELECT 1000U M 6.3V
C6636	403 333 0806	ELECT 1000U M 10V
C6637	403 333 0806	ELECT 1000U M 10V
C6639	403 157 6602	CERAMIC 470P K 50V
C6640	403 164 0204	CERAMIC 0.1U Z 25V
C6641	403 157 3601	CERAMIC 100P J 50V
C6642	403 157 3601	CERAMIC 100P J 50V
C6643	403 333 0806	ELECT 1000U M 10V
C6644	403 164 0204	CERAMIC 0.1U Z 25V
C6645	403 164 0204	CERAMIC 0.1U Z 25V
C6646	403 164 0204	CERAMIC 0.1U Z 25V
C6647	403 354 8409	ELECT 2200U M 6.3V
C6653	403 347 5507	POS-SOLID 470U M 4V
C6654	403 164 0204	CERAMIC 0.1U Z 25V
C6655	403 162 5300	ELECT 4.7U M 25V
C6659	403 164 0204	CERAMIC 0.1U Z 25V
C6660	403 164 0204	CERAMIC 0.1U Z 25V
C6661	403 164 0204	CERAMIC 0.1U Z 25V
C6662	403 325 8605	ELECT 220U M 16V
C6667	403 331 0303	ELECT 470U M 16V
C6668	403 331 0303	ELECT 470U M 16V
C6669	403 348 3700	ELECT 470U M 25V
C6671	403 352 8203	CERAMIC 0.47U Z 16V
C6672	403 155 2309	CERAMIC 4700P K 50V
C6673	403 164 0204	CERAMIC 0.1U Z 25V
C6674	403 325 8506	ELECT 1000U M 16V
C6678	403 354 8409	ELECT 2200U M 6.3V
C6701	403 164 0204	CERAMIC 0.1U Z 25V
C6702	403 094 2606	OS-SOLID 47U M 16V
C6703	403 164 0204	CERAMIC 0.1U Z 25V
C6704	403 281 5205	CERAMIC 0.22U Z 16V
C6705	403 094 2606	OS-SOLID 47U M 16V
C6706	403 164 0204	CERAMIC 0.1U Z 25V
C6707	403 281 5205	CERAMIC 0.22U Z 16V
C6708	403 164 0204	CERAMIC 0.1U Z 25V
C6709	403 094 2606	OS-SOLID 47U M 16V
C6711	403 164 0204	CERAMIC 0.1U Z 25V
C6712	403 348 3700	ELECT 470U M 25V
C6713	403 348 3700	ELECT 470U M 25V
C6778	403 205 7803	TA-SOLID 2.2U M 16V
RESISTOR		
R6601	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6602	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R6604	401 203 9904	MT-GLAZE 4.7K FA 1/16W
R6606	401 105 0405	MT-GLAZE 100 JA 1/16W
R6610	401 238 4202	MT-GLAZE 1.5K JA 1/3W
R6611	401 299 1608	MT-GLAZE 1 JE 1/2W
R6620	401 230 4705	MT-GLAZE 680 JA 1W
R6621	401 105 8005	MT-GLAZE 1M JA 1/16W
R6623	401 105 4007	MT-GLAZE 330 JA 1/16W
R6624	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6625	401 113 8400	MT-GLAZE 75K JA 1/16W
R6626	401 105 0603	MT-GLAZE 10K JA 1/16W
R6627	401 105 2904	MT-GLAZE 22K JA 1/16W
R6628	401 202 4009	MT-GLAZE 10K FA 1/16W
R6629	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R6630	401 105 0702	MT-GLAZE 100K JA 1/16W
R6631	401 105 4007	MT-GLAZE 330 JA 1/16W
R6632	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6633	401 105 0603	MT-GLAZE 10K JA 1/16W
R6634	401 105 3406	MT-GLAZE 27K JA 1/16W
R6635	403 164 0204	CERAMIC 0.1U Z 25V
R6636	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6637	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6638	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6640	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6641	401 105 0603	MT-GLAZE 10K JA 1/16W
R6642	401 212 0503	MT-GLAZE 6.8K FA 1/16W
R6643	401 105 0603	MT-GLAZE 10K JA 1/16W
R6644	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6645	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6646	401 113 8400	MT-GLAZE 75K JA 1/16W
R6647	401 105 4007	MT-GLAZE 330 JA 1/16W
R6648	401 230 4705	MT-GLAZE 680 JA 1W
R6649	401 105 3406	MT-GLAZE 27K JA 1/16W
R6650	401 105 0603	MT-GLAZE 10K JA 1/16W
R6651	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6652	401 105 0702	MT-GLAZE 100K JA 1/16W
R6654	401 177 2406	MT-GLAZE 10M JA 1/16W
R6655	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6656	401 240 6409	MT-GLAZE 2.2 JE 1/2W
R6657	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6658	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R6659	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6660	401 105 0603	MT-GLAZE 10K JA 1/16W
R6661	401 105 0603	MT-GLAZE 10K JA 1/16W
R6662	401 105 0504	MT-GLAZE 1K JA 1/16W
R6663	401 238 4202	MT-GLAZE 1.5K JA 1/3W
R6664	401 105 0603	MT-GLAZE 10K JA 1/16W
R6665	401 299 1608	MT-GLAZE 1 JE 1/2W
R6666	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6667	401 105 0603	MT-GLAZE 10K JA 1/16W
R6668	401 105 0504	MT-GLAZE 1K JA 1/16W
R6669	401 105 0603	MT-GLAZE 10K JA 1/16W
R6670	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6671	401 203 9904	MT-GLAZE 4.7K FA 1/16W
R6672	401 105 5202	MT-GLAZE 470 JA 1/16W
R6673	401 177 2406	MT-GLAZE 10M JA 1/16W
R6675	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R6676	401 105 0702	MT-GLAZE 100K JA 1/16W
R6677	401 230 2503	MT-GLAZE 1K FA 1/16W
R6678	401 105 7305	MT-GLAZE 820 JA 1/16W
R6679	401 247 0202	MT-GLAZE 3.9K FA 1/16W

Key No.	Part No.	Description
R6681	401 212 0008	MT-GLAZE 15K FA 1/16W
R6682	401 230 4705	MT-GLAZE 680 JA 1W
R6683	401 105 4007	MT-GLAZE 330 JA 1/16W
R6684	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6686	401 113 8400	MT-GLAZE 75K JA 1/16W
R6687	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6689	401 105 0603	MT-GLAZE 10K JA 1/16W
R6690	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R6691	401 105 0603	MT-GLAZE 10K JA 1/16W
R6692	401 235 4403	MT-GLAZE 560 FA 1/16W
R6694	401 225 5601	MT-GLAZE 2.2 JA 1W
R6695	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6708	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R6709	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R6710	401 105 1402	MT-GLAZE 150 JA 1/16W
R6717	401 105 0306	MT-GLAZE 10 JA 1/16W
R6718	401 105 0306	MT-GLAZE 10 JA 1/16W
R6719	401 105 0504	MT-GLAZE 1K JA 1/16W
R6720	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R6722	401 105 0603	MT-GLAZE 10K JA 1/16W
R6725	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6730	401 290 1508	MT-GLAZE 0.1 JE 1/2W
R6731	401 105 0603	MT-GLAZE 10K JA 1/16W
R6732	401 105 0603	MT-GLAZE 10K JA 1/16W
R6736	401 203 9904	MT-GLAZE 4.7K FA 1/16W
R6737	401 105 5202	MT-GLAZE 470 JA 1/16W
R6738	401 247 0202	MT-GLAZE 3.9K FA 1/16W
R6739	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6742	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6751	401 105 2904	MT-GLAZE 22K JA 1/16W
R6752	401 105 2409	MT-GLAZE 2K JA 1/16W
R6753	401 105 0603	MT-GLAZE 10K JA 1/16W
R6754	401 105 0504	MT-GLAZE 1K JA 1/16W
R6756	401 105 0603	MT-GLAZE 10K JA 1/16W
R6757	401 113 5706	MT-GLAZE 910 JA 1/16W
R6761	401 105 2904	MT-GLAZE 22K JA 1/16W
R6762	401 105 2409	MT-GLAZE 2K JA 1/16W
R6763	401 105 0603	MT-GLAZE 10K JA 1/16W
R6764	401 105 0504	MT-GLAZE 1K JA 1/16W
R6766	401 105 0603	MT-GLAZE 10K JA 1/16W
R6767	401 113 5706	MT-GLAZE 910 JA 1/16W
R6777	401 294 5502	MT-GLAZE 0.03 JX 1/4W
R6779	401 294 5502	MT-GLAZE 0.03 JX 1/4W
R6781	401 105 0603	MT-GLAZE 10K JA 1/16W
R6782	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6783	401 105 0603	MT-GLAZE 10K JA 1/16W
R6784	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R6785	401 219 1107	MT-GLAZE 1.8K FA 1/16W
R6786	401 105 0603	MT-GLAZE 10K JA 1/16W
R6787	401 230 2503	MT-GLAZE 1K FA 1/16W
R6788	401 203 9805	MT-GLAZE 2.7K FA 1/16W
R6795	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
COIL		
L6604	645 048 5381	INDUCTOR,100U K
L6606	645 048 5688	INDUCTOR,47U K
L6607	645 037 4791	INDUCTOR,100U M
L6608	645 048 5688	INDUCTOR,47U K
L6609	645 046 1996	INDUCTOR,5.6U N
L6611	645 007 8125	INDUCTOR,47U K
L6612	645 048 5688	INDUCTOR,47U K
L6613	645 007 7975	INDUCTOR,100U K
L6614	645 048 5688	INDUCTOR,47U K
L6616	645 048 5381	INDUCTOR,100U K
L6617	645 048 5688	INDUCTOR,47U K
L6619	645 007 7975	INDUCTOR,100U K
L6701	645 048 5688	INDUCTOR,47U K

Key No.	Part No.	Description
DIODE		
D6606	407 223 5001	DIODE D1FM3
D6607	407 222 1301	DIODE CMS04
D6608	407 149 0807	DIODE 1SS355-TE-17
D6609	407 223 5001	DIODE D1FM3
D6610	407 149 0807	DIODE 1SS355-TE-17
D6611	407 223 5001	DIODE D1FM3
D6614	407 149 0807	DIODE 1SS355-TE-17
D6616	407 149 0807	DIODE 1SS355-TE-17
D6617	407 149 0807	DIODE 1SS355-TE-17
D6618	407 149 0807	DIODE 1SS355-TE-17
D6661	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D6662	407 149 0807	DIODE 1SS355-TE-17
D6663	407 223 0907	ZENER DIODE 02DZ4.7Y(TPH3
D6664	407 149 0807	DIODE 1SS355-TE-17

SUB DRIVE BOARD

610 305 1734 ASSY,PWB,SUB DRIVE MR3A

TRANSISTOR			
Q1681	405 045 8705	TR 2SK536-TB	
Q1682	405 045 8705	TR 2SK536-TB	
INTEGRATED CIRCUIT			
IC1601	409 085 1900	IC LB1645N	
IC1602	409 114 4803	IC LB1641	
IC1611	409 114 4803	IC LB1641	
IC1621	409 124 5906	IC L78M12T-TL	
IC1631	410 405 9308	IC TDA7056AT/N2	
IC1632	410 405 9308	IC TDA7056AT/N2	
IC1641	409 404 6302	IC M62320FP	
IC1651	409 390 6201	IC EL2244CS	
IC1652	409 367 1604	IC BH3540AFS-E2	
CAPACITOR			
C1601	403 325 8506	ELECT	1000U M 16V
C1602	403 149 9208	CERAMIC	0.01U Z 50V
C1603	403 149 9208	CERAMIC	0.01U Z 50V
C1604	403 325 8605	ELECT	220U M 16V
C1606	403 149 9208	CERAMIC	0.01U Z 50V
C1607	403 149 9208	CERAMIC	0.01U Z 50V
C1608	403 325 8605	ELECT	220U M 16V
C1612	403 149 9208	CERAMIC	0.01U Z 50V
C1613	403 149 9208	CERAMIC	0.01U Z 50V
C1614	403 325 8605	ELECT	220U M 16V
C1621	403 331 0303	ELECT	470U M 16V
C1622	403 331 0303	ELECT	470U M 16V
C1623	403 164 0204	CERAMIC	0.1U Z 25V
C1624	403 164 0204	CERAMIC	0.1U Z 25V
C1626	403 331 0303	ELECT	470U M 16V
C1631TM	403 325 8605	ELECT	220U M 16V
C1632	403 323 8805	CERAMIC	2.2U Z 16V
C1633	403 164 0204	CERAMIC	0.1U Z 25V
C1634	403 323 8805	CERAMIC	2.2U Z 16V
C1636	403 325 8605	ELECT	220U M 16V
C1637	403 164 0204	CERAMIC	0.1U Z 25V
C1641	403 164 0204	CERAMIC	0.1U Z 25V
C1642	403 304 1801	ELECT	100U M 6.3V
C1643	403 164 0204	CERAMIC	0.1U Z 25V
C1661	403 323 8805	CERAMIC	2.2U Z 16V
C1671	403 323 8805	CERAMIC	2.2U Z 16V
C1672	403 323 8805	CERAMIC	2.2U Z 16V
C1673	403 304 3102	ELECT	22U M 16V
C1674	403 229 3508	ELECT	100U M 16V
C1675	403 229 3508	ELECT	100U M 16V
C1676	403 304 3102	ELECT	22U M 16V

Key No.	Part No.	Description
C1677	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1678	401 037 5004	MT-GLAZE 0.000 ZA 1/10W
C1679	403 164 0204	CERAMIC 0.1U Z 25V
RESISTOR		
R1601	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1602	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1603	401 105 0504	MT-GLAZE 1K JA 1/16W
R1604	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1606	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1607	401 105 0504	MT-GLAZE 1K JA 1/16W
R1612	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1613	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R1614	401 105 0504	MT-GLAZE 1K JA 1/16W
R1621	401 184 2000	MT-GLAZE 2.2 JA 1/2W
R1622	401 184 2000	MT-GLAZE 2.2 JA 1/2W
R1623	401 184 2000	MT-GLAZE 2.2 JA 1/2W
R1624	401 190 1400	MT-GLAZE 0.000 ZA 1/2W
R1630	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R1631	401 276 4707	MT-GLAZE 0.000 ZA 1/3W
R1632	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1633	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1635	401 105 5301	MT-GLAZE 4.7K JA 1/16W
R1636	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1638	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1639	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1641	401 105 0405	MT-GLAZE 100 JA 1/16W
R1642	401 105 0405	MT-GLAZE 100 JA 1/16W
R1643	401 105 6100	MT-GLAZE 560K JA 1/16W
R1644	401 105 6100	MT-GLAZE 560K JA 1/16W
R1651	401 105 2409	MT-GLAZE 2K JA 1/16W
R1652	401 105 2409	MT-GLAZE 2K JA 1/16W
R1653	401 105 2409	MT-GLAZE 2K JA 1/16W
R1656	401 105 2409	MT-GLAZE 2K JA 1/16W
R1657	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1658	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1661	401 189 8304	MT-GLAZE 180 JA 1/3W
R1671	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1674	401 105 6506	MT-GLAZE 680 JA 1/16W
R1680	401 105 4700	MT-GLAZE 39K JA 1/16W
R1681	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1683	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R1684	401 113 6307	MT-GLAZE 4.3K JA 1/16W
R1685	401 105 4700	MT-GLAZE 39K JA 1/16W
R1686	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1688	401 113 6406	MT-GLAZE 5.1K JA 1/16W
R1689	401 113 6307	MT-GLAZE 4.3K JA 1/16W
DIODE		
D1601	407 223 0501	ZENER DIODE 02DZ12Y(TPH3)
D1602	407 208 9703	ZD UDZS-TE-175.6B
D1604	407 149 0807	DIODE 1SS355-TE-17
D1611	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1653	407 149 0807	DIODE 1SS355-TE-17
D1675	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3

FILTER BOARD

610 305 1741 ASSY,PWB,FILTER MR3A

Key No.	Part No.	Description
CAPACITOR		
⚠C601	404 081 4702	MT-POLYEST 0.22U M 275V
⚠C602	404 081 4702	MT-POLYEST 0.22U M 275V
⚠C603	404 073 5106	CERAMIC 470P K 250V
⚠C604	404 073 5106	CERAMIC 470P K 250V
RESISTOR		
⚠R600	401 238 1003	MT-GLAZE 120K JA 1/2W
⚠R601	401 238 1003	MT-GLAZE 120K JA 1/2W
VARIABLE RESISTOR		
⚠VA601	407 130 2902	VARISTOR ENC471D-14A
COIL		
⚠L601	645 061 3999	LINE FILTER
MISCELLANEOUS		
⚠F601	423 025 1201	FUSE 250V 8A
F601A	645 000 5077	HOLDER,FUSE
F601B	645 000 5077	HOLDER,FUSE

A/V BOARD

610 304 8895 ASSY,PWB,A/V MR3A

Key No.	Part No.	Description
TRANSISTOR		
Q1001	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1002	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1003	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q1004	405 116 6302	TR 2SA1815-4-TB
Q1006	405 116 6302	TR 2SA1815-4-TB
Q1007	405 116 6302	TR 2SA1815-4-TB
Q1008	405 116 6302	TR 2SA1815-4-TB
Q1009	405 116 6302	TR 2SA1815-4-TB
Q1011	405 116 6302	TR 2SA1815-4-TB
Q1012	405 116 6302	TR 2SA1815-4-TB
Q1013	405 116 6302	TR 2SA1815-4-TB
Q1014	405 116 6302	TR 2SA1815-4-TB
Q1016	405 116 6302	TR 2SA1815-4-TB
Q1201	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1202	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1203	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB

Key No.	Part No.	Description
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1204	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q1206	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q2001	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q2002	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q2003	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q2004	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q2006	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q3801	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4101	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4102	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4104	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4107	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4109	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4111	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4112	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q4113	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q4114	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5001	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5002	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5003	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB

Key No.	Part No.	Description
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5004	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5006	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5007	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5301	405 134 5905	TR 2SA1037AK-T146-R
	405 147 2205	TR 2SA1037AK-S-T146
	405 002 0308	TR 2SA1037K T146 R
	405 002 0407	TR 2SA1037K T146 S
	405 002 6706	TR 2SA1179-M6-TB
	405 002 6904	TR 2SA1179-M7-TB
	405 163 1503	TR 2SA1179N-M6-TB
	405 163 2708	TR 2SA1179N-M7-TB
Q5302	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5304	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
Q5308	405 014 4509	TR 2SC2412K T146 R
	405 014 4608	TR 2SC2412K T146 S
	405 015 8704	TR 2SC2812-L6-TB
	405 015 8902	TR 2SC2812-L7-TB
	405 163 1602	TR 2SC2812N-L6-TB0
	405 163 1701	TR 2SC2812N-L7-TB0
INTEGRATED CIRCUIT		
IC1201	409 462 6009	IC AD8185ARU
IC1202	409 536 5600	IC AD8075ARU
IC3801	409 380 6303	IC HIN232CB
IC3802	410 466 3109	IC TWM7000-170010
	410 457 7109	IC UPD78F9801GB-8ES-MC3A
IC3803	410 457 0100	IC TWM7000-210010
	410 457 7000	IC UPD78F9116BMC-5A4-MC3A
IC3804	409 395 5902	IC TC7SH00FU-(TE85L)
IC3807	410 356 7507	IC SN74HCT244PWR
IC4101	409 490 8006	IC CXA2151Q
IC4102	409 336 3202	IC TC7SH02FU(TE85L)
IC4104	409 474 5304	IC NJM2535V
IC4105	409 394 9307	IC TC7SH14FU(TE85L)
IC4145	409 461 7304	IC AD8057ART
IC5001	409 438 5500	IC TC4052BFT
IC5002	409 271 7303	IC TC4W66F-TE12L
IC5301	409 434 8109	IC TC4053BFT-(EL)
IC5302	409 434 8109	IC TC4053BFT-(EL)
IC5303	410 343 7008	IC SN74AHCT1G14DBVR
IC5304	409 484 2003	IC BA7078AF-E2
IC5306	410 482 0908	IC SN74AHCT1G126DCK
IC5307	410 482 0908	IC SN74AHCT1G126DCK
IC5308	410 349 4100	IC TC7W241FU(TE12L)
IC5312	409 461 7304	IC AD8057ART
IC7301	409 545 7503	IC TA1370FG
IC7302	409 394 9307	IC TC7SH14FU(TE85L)
IC7303	409 394 9307	IC TC7SH14FU(TE85L)
CAPACITOR		
C1001	403 164 0204	CERAMIC 0.1U Z 25V
C1002	403 283 6309	CERAMIC 1U Z 10V
C1003	403 329 2401	CERAMIC 22U Z 10V
C1004	403 157 4202	CERAMIC 220P J 50V
C1006	403 164 0204	CERAMIC 0.1U Z 25V
C1007	403 164 0204	CERAMIC 0.1U Z 25V
C1008	403 164 0204	CERAMIC 0.1U Z 25V
C1009	403 321 2607	ELECT 10U M 16V
C1011	403 321 2607	ELECT 10U M 16V
C1016	403 157 3601	CERAMIC 100P J 50V
C1017	403 157 3601	CERAMIC 100P J 50V
C1018	403 157 3601	CERAMIC 100P J 50V
C1019	403 157 3601	CERAMIC 100P J 50V
C1021	403 321 2607	ELECT 10U M 16V
C1022	403 164 0204	CERAMIC 0.1U Z 25V
C1023	403 164 0204	CERAMIC 0.1U Z 25V
C1024	403 321 2607	ELECT 10U M 16V
C1204	403 164 0204	CERAMIC 0.1U Z 25V
C1206	403 164 0204	CERAMIC 0.1U Z 25V
C1207	403 164 0204	CERAMIC 0.1U Z 25V
C1209	403 164 0204	CERAMIC 0.1U Z 25V
C1211	403 164 0204	CERAMIC 0.1U Z 25V
C1212	403 164 0204	CERAMIC 0.1U Z 25V
C1213	403 164 0204	CERAMIC 0.1U Z 25V
C1216	403 164 0204	CERAMIC 0.1U Z 25V
C1217	403 164 0204	CERAMIC 0.1U Z 25V
C1222	403 164 0204	CERAMIC 0.1U Z 25V
C1223	403 164 0204	CERAMIC 0.1U Z 25V
C1224	403 164 0204	CERAMIC 0.1U Z 25V
C1226	403 283 6309	CERAMIC 1U Z 10V
C1227	403 164 0204	CERAMIC 0.1U Z 25V
C1228	403 164 0204	CERAMIC 0.1U Z 25V
C1229	403 164 0204	CERAMIC 0.1U Z 25V
C1231	403 157 3106	CERAMIC 56P J 50V
C1232	403 157 3106	CERAMIC 56P J 50V
C1233	403 157 3106	CERAMIC 56P J 50V
C1234	403 164 0204	CERAMIC 0.1U Z 25V
C1236	403 164 0204	CERAMIC 0.1U Z 25V
C2004	403 164 0204	CERAMIC 0.1U Z 25V
C2006	403 164 0204	CERAMIC 0.1U Z 25V
C2013	403 157 3601	CERAMIC 100P J 50V
C2014	403 157 3601	CERAMIC 100P J 50V
C2016	403 164 0204	CERAMIC 0.1U Z 25V
C2017	403 164 0204	CERAMIC 0.1U Z 25V
C2018	403 164 0204	CERAMIC 0.1U Z 25V
C2019	403 235 0102	CERAMIC 39P J 50V
C2021	403 155 1609	CERAMIC 33P J 50V
C2022	403 235 0102	CERAMIC 39P J 50V
C2023	403 155 1609	CERAMIC 33P J 50V
C3003	403 164 0204	CERAMIC 0.1U Z 25V
C3004	403 304 2402	ELECT 100U M 10V
C3006	403 164 0204	CERAMIC 0.1U Z 25V
C3007	403 347 3503	OS-SOLID 120U M 10V
C3008	403 164 0204	CERAMIC 0.1U Z 25V
C3009	403 357 7102	OS-SOLID 47U M 10V
C3011	403 164 0204	CERAMIC 0.1U Z 25V
C3012	403 357 7102	OS-SOLID 47U M 10V
C3013	403 164 0204	CERAMIC 0.1U Z 25V
C3801	403 283 6309	CERAMIC 1U Z 10V

Key No.	Part No.	Description
C3802	403 283 6309	CERAMIC 1U Z 10V
C3803	403 283 6309	CERAMIC 1U Z 10V
C3804	403 283 6309	CERAMIC 1U Z 10V
C3806	403 283 6309	CERAMIC 1U Z 10V
C3807	403 329 2401	CERAMIC 22U Z 10V
C3808	403 164 0204	CERAMIC 0.1U Z 25V
C3809	403 283 6309	CERAMIC 1U Z 10V
C3811	403 164 0204	CERAMIC 0.1U Z 25V
C3812	403 283 6309	CERAMIC 1U Z 10V
C3813	403 164 0204	CERAMIC 0.1U Z 25V
C3814	403 164 0204	CERAMIC 0.1U Z 25V
C4100TM	403 341 3905	POS-SOLID 100U M 6.3V
C4101	403 164 0204	CERAMIC 0.1U Z 25V
C4102	403 348 5803	CERAMIC 0.47U K 10V
C4103	403 348 5803	CERAMIC 0.47U K 10V
C4104	403 348 5803	CERAMIC 0.47U K 10V
C4106	403 348 5803	CERAMIC 0.47U K 10V
C4107	403 348 5803	CERAMIC 0.47U K 10V
C4108	403 149 9208	CERAMIC 0.01U Z 50V
C4109	403 323 1301	CERAMIC 0.47U Z 10V
C4111	403 164 0204	CERAMIC 0.1U Z 25V
C4112	403 323 1301	CERAMIC 0.47U Z 10V
C4113	403 329 2401	CERAMIC 22U Z 10V
C4114	403 348 5803	CERAMIC 0.47U K 10V
C4116	403 348 5803	CERAMIC 0.47U K 10V
C4117	403 348 5803	CERAMIC 0.47U K 10V
C4118	403 348 5803	CERAMIC 0.47U K 10V
C4119	403 348 5803	CERAMIC 0.47U K 10V
C4127	403 157 2505	CERAMIC 27P J 50V
C4128	403 157 2505	CERAMIC 27P J 50V
C4129	403 157 2505	CERAMIC 27P J 50V
C4131	403 348 5803	CERAMIC 0.47U K 10V
C4132	403 348 5803	CERAMIC 0.47U K 10V
C4133	403 348 5803	CERAMIC 0.47U K 10V
C4134	403 149 9208	CERAMIC 0.01U Z 50V
C4136	403 149 9208	CERAMIC 0.01U Z 50V
C4137	403 149 9208	CERAMIC 0.01U Z 50V
C4138	403 149 9208	CERAMIC 0.01U Z 50V
C4139	403 149 9208	CERAMIC 0.01U Z 50V
C4141	403 149 9208	CERAMIC 0.01U Z 50V
C4142	403 149 9208	CERAMIC 0.01U Z 50V
C4143	403 323 1301	CERAMIC 0.47U Z 10V
C4144	403 329 2401	CERAMIC 22U Z 10V
C4145	403 145 9905	CERAMIC 22P J 50V
C4146	403 215 2201	CERAMIC 0.01U K 50V
C4147	403 283 6309	CERAMIC 1U Z 10V
C4149	403 215 2201	CERAMIC 0.01U K 50V
C4151	403 155 4204	CERAMIC 15P J 50V
C4152	403 164 0204	CERAMIC 0.1U Z 25V
C4153	403 164 0204	CERAMIC 0.1U Z 25V
C4154	403 164 0204	CERAMIC 0.1U Z 25V
C4155	403 164 0204	CERAMIC 0.1U Z 25V
C4156	403 164 0204	CERAMIC 0.1U Z 25V
C4163	403 321 2607	ELECT 10U M 16V
C4164	403 321 2607	ELECT 10U M 16V
C4166	403 164 0204	CERAMIC 0.1U Z 25V
C4167	403 378 6405	CERAMIC 10U Z 16V
C4168	403 321 2607	ELECT 10U M 16V
C4169	403 164 0204	CERAMIC 0.1U Z 25V
C5001	403 323 8805	CERAMIC 2.2U Z 16V
C5002	403 323 8805	CERAMIC 2.2U Z 16V
C5003	403 323 8805	CERAMIC 2.2U Z 16V
C5004	403 378 6405	CERAMIC 10U Z 16V
C5006	403 323 8805	CERAMIC 2.2U Z 16V
C5007	403 323 8805	CERAMIC 2.2U Z 16V
C5008	403 323 8805	CERAMIC 2.2U Z 16V
C5009	403 323 1301	CERAMIC 0.47U Z 10V
C5011	403 329 2401	CERAMIC 22U Z 10V
C5012	403 164 0204	CERAMIC 0.1U Z 25V
C5013	403 164 0204	CERAMIC 0.1U Z 25V
C5014	403 162 4709	ELECT 10U M 16V
C5016	403 162 4709	ELECT 10U M 16V
C5017	403 164 0204	CERAMIC 0.1U Z 25V
C5301	403 164 0204	CERAMIC 0.1U Z 25V
C5302	403 164 0204	CERAMIC 0.1U Z 25V
C5303	403 164 0204	CERAMIC 0.1U Z 25V
C5304	403 164 0204	CERAMIC 0.1U Z 25V
C5306	403 164 0204	CERAMIC 0.1U Z 25V
C5307	403 164 0204	CERAMIC 0.1U Z 25V
C5308	403 164 0204	CERAMIC 0.1U Z 25V
C5309	403 348 5803	CERAMIC 0.47U K 10V
C5311	403 283 6309	CERAMIC 1U Z 10V
C5313	403 283 6309	CERAMIC 1U Z 10V
C5317	403 164 0204	CERAMIC 0.1U Z 25V
C5318	403 298 9609	CERAMIC 0.1U K 16V
	403 325 3303	CERAMIC 0.1U K 16V
C5319	403 364 5801	CERAMIC 1U K 10V
C5322	403 314 5905	CERAMIC 0.47U K 16V
C5323	403 355 9900	CERAMIC 2.2U K 10V
C5324	403 364 5801	CERAMIC 1U K 10V
C5326	403 157 3601	CERAMIC 100P J 50V
C5327	403 164 0204	CERAMIC 0.1U Z 25V
C5328	403 164 0204	CERAMIC 0.1U Z 25V
C5329	403 164 0204	CERAMIC 0.1U Z 25V
C5331	403 164 0204	CERAMIC 0.1U Z 25V
C5333	403 149 9208	CERAMIC 0.01U Z 50V
C5336	403 164 0204	CERAMIC 0.1U Z 25V
C5337	403 164 0204	CERAMIC 0.1U Z 25V
C5338	403 355 9900	CERAMIC 2.2U K 10V
C5339	403 157 6800	CERAMIC 680P K 50V
C5342	403 283 6309	CERAMIC 1U Z 10V
C7301	403 164 0204	CERAMIC 0.1U Z 25V
C7302	403 149 9208	CERAMIC 0.01U Z 50V
C7303	403 283 6309	CERAMIC 1U Z 10V
C7304	403 283 6309	CERAMIC 1U Z 10V
C7306	403 164 0204	CERAMIC 0.1U Z 25V
C7307	403 283 6309	CERAMIC 1U Z 10V
C7308	403 215 2201	CERAMIC 0.01U K 50V
C7309	403 283 6309	CERAMIC 1U Z 10V
C7311	403 323 1301	CERAMIC 0.47U Z 10V
C7312	403 286 8607	ELECT 470U M 16V
C7313	403 233 3808	CERAMIC 10P C 50V
RESISTOR		
RB5001	645 021 0365	R-NETWORK 100KX4 0.063W
	645 025 5397	R-NETWORK 100KX4 1/16W
RB5002	645 021 0365	R-NETWORK 100KX4 0.063W
	645 025 5397	R-NETWORK 100KX4 1/16W
R1001	401 260 4102	MT-GLAZE 75 JA 1/3W
R1006	401 260 4102	MT-GLAZE 75 JA 1/3W
R1011	401 260 4102	MT-GLAZE 75 JA 1/3W
R1016	401 105 0405	MT-GLAZE 100 JA 1/16W
R1017	401 105 0405	MT-GLAZE 100 JA 1/16W
R1018	401 105 0405	MT-GLAZE 100 JA 1/16W
R1019	401 105 0306	MT-GLAZE 10 JA 1/16W
R1021	401 105 5400	MT-GLAZE 47K JA 1/16W
R1022	401 105 0306	MT-GLAZE 10 JA 1/16W
R1023	401 105 5400	MT-GLAZE 47K JA 1/16W
R1031	401 113 4402	MT-GLAZE 75 JA 1/16W
R1032	401 113 4402	MT-GLAZE 75 JA 1/16W
R1033	401 113 4402	MT-GLAZE 75 JA 1/16W
R1034	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1036	401 105 2706	MT-GLAZE 220 JA 1/16W
R1037	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1038	401 105 2706	MT-GLAZE 220 JA 1/16W

Key No.	Part No.	Description
R1039	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1041	401 105 2706	MT-GLAZE 220 JA 1/16W
R1042	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1043	401 105 2706	MT-GLAZE 220 JA 1/16W
R1044	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1046	401 105 2706	MT-GLAZE 220 JA 1/16W
R1051	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1052	401 105 2706	MT-GLAZE 220 JA 1/16W
R1054	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1056	401 105 2706	MT-GLAZE 220 JA 1/16W
R1057	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R1058	401 105 2706	MT-GLAZE 220 JA 1/16W
R1059	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1061	401 105 2706	MT-GLAZE 220 JA 1/16W
R1062	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1063	401 105 2706	MT-GLAZE 220 JA 1/16W
R1064	401 105 0405	MT-GLAZE 100 JA 1/16W
R1066	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1067	401 105 0405	MT-GLAZE 100 JA 1/16W
R1068	401 105 0405	MT-GLAZE 100 JA 1/16W
R1069	401 260 4102	MT-GLAZE 75 JA 1/3W
R1071	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1072	401 260 4102	MT-GLAZE 75 JA 1/3W
R1073	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1074	401 260 4102	MT-GLAZE 75 JA 1/3W
R1075	401 105 0405	MT-GLAZE 100 JA 1/16W
R1076	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1078	401 105 5400	MT-GLAZE 47K JA 1/16W
R1079	401 105 5400	MT-GLAZE 47K JA 1/16W
R1082	401 105 0405	MT-GLAZE 100 JA 1/16W
R1083	401 105 5509	MT-GLAZE 470K JA 1/16W
R1084	401 105 5509	MT-GLAZE 470K JA 1/16W
R1086	401 105 5509	MT-GLAZE 470K JA 1/16W
R1087	401 105 5509	MT-GLAZE 470K JA 1/16W
R1088	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1089	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1091	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1092	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1093	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1094	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1096	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1097	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R1201	401 105 0405	MT-GLAZE 100 JA 1/16W
R1202	401 105 0405	MT-GLAZE 100 JA 1/16W
R1203	401 105 0405	MT-GLAZE 100 JA 1/16W
R1204	401 105 0405	MT-GLAZE 100 JA 1/16W
R1206	401 105 0405	MT-GLAZE 100 JA 1/16W
R1207	401 105 0405	MT-GLAZE 100 JA 1/16W
R1208	401 105 0603	MT-GLAZE 10K JA 1/16W
R1209	401 105 0405	MT-GLAZE 100 JA 1/16W
R1212	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R1213	401 105 1303	MT-GLAZE 15 JA 1/16W
R1214	401 105 1303	MT-GLAZE 15 JA 1/16W
R1216	401 105 1303	MT-GLAZE 15 JA 1/16W
R1217	401 105 0603	MT-GLAZE 10K JA 1/16W
R1218	401 105 0603	MT-GLAZE 10K JA 1/16W
R1219	401 105 0603	MT-GLAZE 10K JA 1/16W
R1221	401 105 0603	MT-GLAZE 10K JA 1/16W
R1226	401 105 0504	MT-GLAZE 1K JA 1/16W
R1231	401 105 0405	MT-GLAZE 100 JA 1/16W
R1232	401 105 0405	MT-GLAZE 100 JA 1/16W
R1233	401 105 0405	MT-GLAZE 100 JA 1/16W
R1234	401 105 0603	MT-GLAZE 10K JA 1/16W
R1236	401 105 0603	MT-GLAZE 10K JA 1/16W
R1237	401 105 0603	MT-GLAZE 10K JA 1/16W
R1238	401 105 0504	MT-GLAZE 1K JA 1/16W
R1239	401 105 0603	MT-GLAZE 10K JA 1/16W
R2001	401 260 4102	MT-GLAZE 75 JA 1/3W
R2002	401 260 4102	MT-GLAZE 75 JA 1/3W
R2003	401 260 4102	MT-GLAZE 75 JA 1/3W
R2004	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2006	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2007	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2009	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2011	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2012	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2014	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2023	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2024	401 260 4102	MT-GLAZE 75 JA 1/3W
R2026	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2027	401 260 4102	MT-GLAZE 75 JA 1/3W
R2028	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2029	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2031	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R2032	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R2033	401 105 5509	MT-GLAZE 470K JA 1/16W
R2034	401 105 0405	MT-GLAZE 100 JA 1/16W
R2036	401 105 0405	MT-GLAZE 100 JA 1/16W
R2037	401 105 5509	MT-GLAZE 470K JA 1/16W
R2038	401 105 6506	MT-GLAZE 680 JA 1/16W
R2039	401 105 6506	MT-GLAZE 680 JA 1/16W
R3001	401 105 0603	MT-GLAZE 10K JA 1/16W
R3002	401 105 0405	MT-GLAZE 100 JA 1/16W
R3004	401 105 0405	MT-GLAZE 100 JA 1/16W
R3006	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3007	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3012	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3801	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3802	401 105 0405	MT-GLAZE 100 JA 1/16W
R3804	401 105 0405	MT-GLAZE 100 JA 1/16W
R3806	401 105 0603	MT-GLAZE 10K JA 1/16W
R3807	401 105 0405	MT-GLAZE 100 JA 1/16W
R3809	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R3811	401 105 0504	MT-GLAZE 1K JA 1/16W
R3813	401 105 0405	MT-GLAZE 100 JA 1/16W
R3814	401 105 0405	MT-GLAZE 100 JA 1/16W
R3816	401 105 0405	MT-GLAZE 100 JA 1/16W
R3817	401 105 0405	MT-GLAZE 100 JA 1/16W
R3818	401 105 2904	MT-GLAZE 22K JA 1/16W
R3819	401 105 2904	MT-GLAZE 22K JA 1/16W
R3821	401 105 2904	MT-GLAZE 22K JA 1/16W
R3822	401 105 2904	MT-GLAZE 22K JA 1/16W
R3823	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3824	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3826	401 105 0603	MT-GLAZE 10K JA 1/16W
R3827	401 105 0603	MT-GLAZE 10K JA 1/16W
R3828	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R3829	401 105 5400	MT-GLAZE 47K JA 1/16W
R3831	401 105 0603	MT-GLAZE 10K JA 1/16W
R3832	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3833	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3834	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3836	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3837	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3838	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3839	401 105 2904	MT-GLAZE 22K JA 1/16W
R3841	401 105 2904	MT-GLAZE 22K JA 1/16W
R3842	401 105 2904	MT-GLAZE 22K JA 1/16W
R3843	401 105 0603	MT-GLAZE 10K JA 1/16W
R3844	401 105 0603	MT-GLAZE 10K JA 1/16W
R3846	401 105 0603	MT-GLAZE 10K JA 1/16W
R3847	401 105 0603	MT-GLAZE 10K JA 1/16W

Key No.	Part No.	Description	Key No.	Part No.	Description
R3848	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4172	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3849	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4173	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R3851	401 105 0603	MT-GLAZE 10K JA 1/16W	R4174	401 105 4700	MT-GLAZE 39K JA 1/16W
R3853	401 105 0603	MT-GLAZE 10K JA 1/16W	R4176	401 105 3406	MT-GLAZE 27K JA 1/16W
R3854	401 105 0603	MT-GLAZE 10K JA 1/16W	R4177	401 035 4900	MT-GLAZE 1K JA 1/8W
R3856	401 105 0405	MT-GLAZE 100 JA 1/16W	R4178	401 105 6100	MT-GLAZE 560K JA 1/16W
R3857	401 105 0405	MT-GLAZE 100 JA 1/16W	R4179	401 105 6100	MT-GLAZE 560K JA 1/16W
R3858	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4181	401 105 6100	MT-GLAZE 560K JA 1/16W
R3859	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4182	401 105 6100	MT-GLAZE 560K JA 1/16W
R3861	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4183	401 105 8005	MT-GLAZE 1M JA 1/16W
R3862	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R4184	401 105 8005	MT-GLAZE 1M JA 1/16W
R3863	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R4186	401 105 8005	MT-GLAZE 1M JA 1/16W
R3864TM	401 024 7400	CARBON 10K JA 1/6W	R5001	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R3866TM	401 024 7400	CARBON 10K JA 1/6W	R5002	401 105 4106	MT-GLAZE 3.3K JA 1/16W
R4101	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R5003	401 105 0405	MT-GLAZE 100 JA 1/16W
R4102	401 105 8005	MT-GLAZE 1M JA 1/16W	R5004	401 105 0405	MT-GLAZE 100 JA 1/16W
R4103	401 105 0504	MT-GLAZE 1K JA 1/16W	R5006	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4104	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R5007	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4105	401 105 3000	MT-GLAZE 220K JA 1/16W	R5008	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4106	401 105 8005	MT-GLAZE 1M JA 1/16W	R5009	401 105 0405	MT-GLAZE 100 JA 1/16W
R4107	401 105 0504	MT-GLAZE 1K JA 1/16W	R5011	401 105 0405	MT-GLAZE 100 JA 1/16W
R4108	401 105 4601	MT-GLAZE 3.9K JA 1/16W	R5012	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4109	401 105 8005	MT-GLAZE 1M JA 1/16W	R5013	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4111	401 105 0504	MT-GLAZE 1K JA 1/16W	R5014	401 105 0405	MT-GLAZE 100 JA 1/16W
R4112	401 105 5806	MT-GLAZE 56 JA 1/16W	R5016	401 105 0405	MT-GLAZE 100 JA 1/16W
R4113	401 105 5806	MT-GLAZE 56 JA 1/16W	R5017	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4114	401 105 5806	MT-GLAZE 56 JA 1/16W	R5018	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4115	401 105 1006	MT-GLAZE 1.2K JA 1/16W	R5019	401 105 0405	MT-GLAZE 100 JA 1/16W
R4116	401 105 5806	MT-GLAZE 56 JA 1/16W	R5020	401 105 0603	MT-GLAZE 10K JA 1/16W
R4117	401 105 5806	MT-GLAZE 56 JA 1/16W	R5022	401 105 0603	MT-GLAZE 10K JA 1/16W
R4118	401 105 5806	MT-GLAZE 56 JA 1/16W	R5023	401 105 0603	MT-GLAZE 10K JA 1/16W
R4119	401 105 5806	MT-GLAZE 56 JA 1/16W	R5024	401 105 0603	MT-GLAZE 10K JA 1/16W
R4121	401 105 5806	MT-GLAZE 56 JA 1/16W	R5025	401 105 0603	MT-GLAZE 10K JA 1/16W
R4122	401 105 5806	MT-GLAZE 56 JA 1/16W	R5026	401 105 5202	MT-GLAZE 470 JA 1/16W
R4123	401 105 5806	MT-GLAZE 56 JA 1/16W	R5027	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4124	401 105 5806	MT-GLAZE 56 JA 1/16W	R5028	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4125	401 105 1105	MT-GLAZE 12K JA 1/16W	R5029	401 105 0603	MT-GLAZE 10K JA 1/16W
R4126	401 105 5806	MT-GLAZE 56 JA 1/16W	R5301	401 105 0504	MT-GLAZE 1K JA 1/16W
R4127	401 105 3307	MT-GLAZE 2.7K JA 1/16W	R5302	401 105 0504	MT-GLAZE 1K JA 1/16W
R4128	401 105 2706	MT-GLAZE 220 JA 1/16W	R5304	401 105 2805	MT-GLAZE 2.2K JA 1/16W
R4129	401 202 4009	MT-GLAZE 10K FA 1/16W	R5306	401 105 0306	MT-GLAZE 10 JA 1/16W
R4131	401 105 0306	MT-GLAZE 10 JA 1/16W	R5307	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4132	401 105 0306	MT-GLAZE 10 JA 1/16W	R5308	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4133	401 113 4907	MT-GLAZE 200 JA 1/16W	R5309	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4134	401 105 0504	MT-GLAZE 1K JA 1/16W	R5311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R4136	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5312	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4137	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5313	401 105 0306	MT-GLAZE 10 JA 1/16W
R4138	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5314	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4139	401 105 0405	MT-GLAZE 100 JA 1/16W	R5316	401 105 0405	MT-GLAZE 100 JA 1/16W
R4141	401 105 0405	MT-GLAZE 100 JA 1/16W	R5317	401 105 1303	MT-GLAZE 15 JA 1/16W
R4142	401 037 1907	MT-GLAZE 680 JA 1/8W	R5318	401 105 1303	MT-GLAZE 15 JA 1/16W
R4146	401 037 1907	MT-GLAZE 680 JA 1/8W	R5323	401 105 0405	MT-GLAZE 100 JA 1/16W
R4149	401 105 6506	MT-GLAZE 680 JA 1/16W	R5324	401 105 3109	MT-GLAZE 27 JA 1/16W
R4151	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5326	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4154	401 105 5806	MT-GLAZE 56 JA 1/16W	R5327	401 105 2003	MT-GLAZE 1.8K JA 1/16W
R4156	401 105 5806	MT-GLAZE 56 JA 1/16W	R5328	401 105 1907	MT-GLAZE 180 JA 1/16W
R4157	401 105 5806	MT-GLAZE 56 JA 1/16W	R5329	401 105 8104	MT-GLAZE 56K JA 1/16W
R4158	401 105 5806	MT-GLAZE 56 JA 1/16W	R5331	401 105 0405	MT-GLAZE 100 JA 1/16W
R4159	401 105 5806	MT-GLAZE 56 JA 1/16W	R5332	401 035 4108	MT-GLAZE 0.000 ZA 1/8W
R4162	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5337	401 105 0405	MT-GLAZE 100 JA 1/16W
R4163	401 105 2805	MT-GLAZE 2.2K JA 1/16W	R5344	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R4164	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5346	401 105 3307	MT-GLAZE 2.7K JA 1/16W
R4166	401 105 0603	MT-GLAZE 10K JA 1/16W	R5347	401 105 1402	MT-GLAZE 150 JA 1/16W
R4167	401 105 0603	MT-GLAZE 10K JA 1/16W	R5349	401 105 1402	MT-GLAZE 150 JA 1/16W
R4168	401 105 0603	MT-GLAZE 10K JA 1/16W	R5351	401 105 0405	MT-GLAZE 100 JA 1/16W
R4169	401 105 0603	MT-GLAZE 10K JA 1/16W	R5352	401 105 8005	MT-GLAZE 1M JA 1/16W
R4171	401 105 7909	MT-GLAZE 0.000 ZA 1/16W	R5354	401 105 4601	MT-GLAZE 3.9K JA 1/16W

Key No.	Part No.	Description
R5356	401 105 0405	MT-GLAZE 100 JA 1/16W
R5357	401 105 0405	MT-GLAZE 100 JA 1/16W
R5358	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5359	401 105 0603	MT-GLAZE 10K JA 1/16W
R5361	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5362	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5363	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R5371	401 105 0603	MT-GLAZE 10K JA 1/16W
R5372	401 105 0603	MT-GLAZE 10K JA 1/16W
R5373	401 105 0603	MT-GLAZE 10K JA 1/16W
R5374	401 105 0603	MT-GLAZE 10K JA 1/16W
R5376	401 105 0504	MT-GLAZE 1K JA 1/16W
R5377	401 105 1501	MT-GLAZE 1.5K JA 1/16W
R5378	401 105 0603	MT-GLAZE 10K JA 1/16W
R5379	401 105 0603	MT-GLAZE 10K JA 1/16W
R7301	401 105 0306	MT-GLAZE 10 JA 1/16W
R7302	401 105 0504	MT-GLAZE 1K JA 1/16W
R7303	401 105 0405	MT-GLAZE 100 JA 1/16W
R7304	401 105 0405	MT-GLAZE 100 JA 1/16W
R7306	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7307	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7308	401 105 0504	MT-GLAZE 1K JA 1/16W
R7309	401 105 0306	MT-GLAZE 10 JA 1/16W
R7311	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7312	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7313	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7314	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7316	401 105 7404	MT-GLAZE 8.2K JA 1/16W
R7317	401 105 4007	MT-GLAZE 330 JA 1/16W
R7318	401 105 4007	MT-GLAZE 330 JA 1/16W
R7321	401 105 0504	MT-GLAZE 1K JA 1/16W
R7323	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7324	401 105 7909	MT-GLAZE 0.000 ZA 1/16W
R7338	401 105 3000	MT-GLAZE 220K JA 1/16W
R7339	401 105 3000	MT-GLAZE 220K JA 1/16W
COIL		
L1001	645 044 8850	FILTER,EMI 400MHZ
L1002	645 044 8850	FILTER,EMI 400MHZ
L1003	645 044 8850	FILTER,EMI 400MHZ
L1004	645 044 8850	FILTER,EMI 400MHZ
L1006	645 044 8850	FILTER,EMI 400MHZ
L1007	645 044 8850	FILTER,EMI 400MHZ
L1008	645 044 8843	FILTER,EMI 200MHZ
L1009	645 044 8843	FILTER,EMI 200MHZ
L1011	645 044 8850	FILTER,EMI 400MHZ
L1012	645 044 8850	FILTER,EMI 400MHZ
L1013	645 044 8850	FILTER,EMI 400MHZ
L1014	645 044 8843	FILTER,EMI 200MHZ
L1016	645 044 8843	FILTER,EMI 200MHZ
L1017	645 045 6183	FILTER,EMI 25MHZ
L1018	645 045 6183	FILTER,EMI 25MHZ
L1019	645 045 6183	FILTER,EMI 25MHZ
L1021	645 045 6183	FILTER,EMI 25MHZ
L1022	645 045 6183	FILTER,EMI 25MHZ
L1023	645 045 6183	FILTER,EMI 25MHZ
L1024	645 045 6183	FILTER,EMI 25MHZ
L1026	645 045 6183	FILTER,EMI 25MHZ
L1027	645 045 6183	FILTER,EMI 25MHZ
L1028	645 045 6183	FILTER,EMI 25MHZ
L1031	645 045 6183	FILTER,EMI 25MHZ
L1034	645 050 8448	IMPEDANCE,1000 OHM P
L1035	645 050 8448	IMPEDANCE,1000 OHM P
L1201	645 026 0964	INDUCTOR,10U K
L2001	645 044 8836	FILTER,EMI 100MHZ
L2002	645 044 8836	FILTER,EMI 100MHZ
L2003	645 044 8836	FILTER,EMI 100MHZ
L2004	645 044 8836	FILTER,EMI 100MHZ
L2005	645 050 8448	IMPEDANCE,1000 OHM P
L2006	645 044 8836	FILTER,EMI 100MHZ
L2008	645 045 6183	FILTER,EMI 25MHZ
L2009	645 045 6183	FILTER,EMI 25MHZ
L2011	645 026 1039	INDUCTOR,6.8U M
L2012	645 026 1039	INDUCTOR,6.8U M
L2014	645 050 8448	IMPEDANCE,1000 OHM P
L2031	645 050 8448	IMPEDANCE,1000 OHM P
L3001	645 045 6183	FILTER,EMI 25MHZ
L3002	645 045 6183	FILTER,EMI 25MHZ
L4101	645 050 8448	IMPEDANCE,1000 OHM P
L4105	645 050 8448	IMPEDANCE,1000 OHM P
L5301	645 050 8448	IMPEDANCE,1000 OHM P
L7301	645 050 8448	IMPEDANCE,1000 OHM P
L7302	645 050 8448	IMPEDANCE,1000 OHM P
DIODE		
D1001	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1002	407 223 1003	ZENER DIODE 02DZ5.1Y(TPH3
D1003	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1007	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1008	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D1009	407 223 0709	ZENER DIODE 02DZ20Y(TPH3)
D1011	407 223 0709	ZENER DIODE 02DZ20Y(TPH3)
D1013	407 223 0709	ZENER DIODE 02DZ20Y(TPH3)
D1014	407 223 0709	ZENER DIODE 02DZ20Y(TPH3)
D1016	407 149 0807	DIODE 1SS355-TE-17
D1017	407 149 0807	DIODE 1SS355-TE-17
D3001	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3002	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3003	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D3801	407 149 0807	DIODE 1SS355-TE-17
D3802	407 149 0807	DIODE 1SS355-TE-17
D3803	407 149 0807	DIODE 1SS355-TE-17
D3851TM	407 056 8002	ZENER DIODE RD5.1EB2
D4101	407 149 0807	DIODE 1SS355-TE-17
D4102	407 149 0807	DIODE 1SS355-TE-17
D5001	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5002	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5003	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5004	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5006	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5007	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5008	407 223 0600	ZENER DIODE 02DZ15Y(TPH3)
D5009	407 149 0807	DIODE 1SS355-TE-17
D5011	407 149 0807	DIODE 1SS355-TE-17
D5012	407 149 0807	DIODE 1SS355-TE-17
D5301	407 149 0807	DIODE 1SS355-TE-17
D5302	407 149 0807	DIODE 1SS355-TE-17
D5311	407 223 0907	ZENER DIODE 02DZ4.7Y(TPH3
D5312	407 223 0907	ZENER DIODE 02DZ4.7Y(TPH3
D7308	407 149 0807	DIODE 1SS355-TE-17
MISCELLANEOUS		
AU1001	645 034 8501	UNIT,REMOCON RECEIVER
IC3001	407 105 8700	PHOTO COUPLE PC113B
K10D	645 028 0382	SOCKET,USB 4P
K10E	645 000 2595	SOCKET,DIN 8P
K10F	645 048 4650	SOCKET,DVI 24P
K10G	645 000 2571	JACK,PHONE D8.0
K10H	645 000 2571	JACK,PHONE D8.0
K20A	645 041 3506	JACK,RCA-2
K20B	645 041 3537	JACK,RCA-3
K20D	610 010 8295	SOCKET,DIN 4P
K20H	645 000 2571	JACK,PHONE D8.0
K30A	645 009 8093	SOCKET,D-SUB 15P
K30B	645 036 5201	SOCKET,BNC 5P
SC1001	645 045 7449	SURGE-ABSORBER

Key No.	Part No.	Description
SC1002	645 045 7449	SURGE-ABSORBER
SC1003	645 045 7449	SURGE-ABSORBER
SC1004	645 045 7449	SURGE-ABSORBER
SC1006	645 045 7449	SURGE-ABSORBER
SC1007	645 045 7449	SURGE-ABSORBER
SC1008	645 045 7449	SURGE-ABSORBER
SC1009	645 045 7449	SURGE-ABSORBER
SC1011	645 045 7449	SURGE-ABSORBER
SC1012	645 045 7449	SURGE-ABSORBER
SC1013	645 045 7449	SURGE-ABSORBER
SC1014	645 045 7449	SURGE-ABSORBER
SC1016	645 045 7449	SURGE-ABSORBER
SC1017	645 045 7449	SURGE-ABSORBER
SC2001	645 045 7449	SURGE-ABSORBER
SC2002	645 045 7449	SURGE-ABSORBER
SC2003	645 045 7449	SURGE-ABSORBER
SC2004	645 045 7449	SURGE-ABSORBER
SC2006	645 045 7449	SURGE-ABSORBER
SC2007	645 045 7449	SURGE-ABSORBER
SC2008	645 045 7449	SURGE-ABSORBER
SW1001	645 042 8197	SWITCH,PUSH 1P-1TX1
X3801	645 053 9114	OSC,CERAMIC 6.000MHZ
X3802	645 053 3877	OSC,CERAMIC 5.00MHZ
X4101	645 041 3841	OSC,CRYSTAL 4MHZ
X7301	645 046 9213	OSC,CERAMIC 503.0KHZ

I/F BOARD

610 304 8857 ASSY,PWB,I/F MR3A

INTEGRATED CIRCUIT

IC7001	409 523 7006	IC PQ05VY3H3ZP
IC7002	409 523 7006	IC PQ05VY3H3ZP
IC7003	409 416 6406	IC BA033FP-E2
IC7004	409 499 1800	IC PQ018EZ01ZP

CAPACITOR

C7001	403 304 2402	ELECT	100U	M	10V
C7002	403 164 0204	CERAMIC	0.1U	Z	25V
C7003	403 164 0204	CERAMIC	0.1U	Z	25V
C7004	403 304 1801	ELECT	100U	M	6.3V
C7009	403 175 4406	ELECT	22U	M	10V
C7011	403 164 0204	CERAMIC	0.1U	Z	25V
C7012	403 164 0204	CERAMIC	0.1U	Z	25V
C7013	403 175 4406	ELECT	22U	M	10V
C7014	403 164 0204	CERAMIC	0.1U	Z	25V
C7016	403 304 2402	ELECT	100U	M	10V
C7017	403 304 2402	ELECT	100U	M	10V
C7018	403 164 0204	CERAMIC	0.1U	Z	25V
C7019	403 164 0204	CERAMIC	0.1U	Z	25V
C7021	403 164 0204	CERAMIC	0.1U	Z	25V
C7022	403 304 1801	ELECT	100U	M	6.3V
C7023	403 304 1801	ELECT	100U	M	6.3V

RESISTOR

R7001	401 105 0405	MT-GLAZE	100	JA	1/16W
R7002	401 105 0405	MT-GLAZE	100	JA	1/16W
R7003	401 105 0405	MT-GLAZE	100	JA	1/16W
R7004	401 105 0405	MT-GLAZE	100	JA	1/16W
R7006	401 113 4907	MT-GLAZE	200	JA	1/16W
R7007	401 105 2409	MT-GLAZE	2K	JA	1/16W
R7008	401 105 6605	MT-GLAZE	6.8K	JA	1/16W
R7009	401 290 1508	MT-GLAZE	0.1	JE	1/2W
R7014	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R7016	401 105 0405	MT-GLAZE	100	JA	1/16W
R7017	401 105 0405	MT-GLAZE	100	JA	1/16W
R7018	401 105 0405	MT-GLAZE	100	JA	1/16W
R7019	401 105 0405	MT-GLAZE	100	JA	1/16W
R7021	401 105 0405	MT-GLAZE	100	JA	1/16W
R7022	401 105 0405	MT-GLAZE	100	JA	1/16W
R7023	401 105 0405	MT-GLAZE	100	JA	1/16W
R7024	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R7026	401 113 4907	MT-GLAZE	200	JA	1/16W
R7027	401 105 2409	MT-GLAZE	2K	JA	1/16W
R7028	401 105 6605	MT-GLAZE	6.8K	JA	1/16W
R7029	401 234 8105	MT-GLAZE	4.7	JA	1W
R7030	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R7031	401 234 8105	MT-GLAZE	4.7	JA	1W
R7032	401 105 0405	MT-GLAZE	100	JA	1/16W
R7033	401 035 4108	MT-GLAZE	0.000	ZA	1/8W
R7034	401 035 4108	MT-GLAZE	0.000	ZA	1/8W
R7035	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R7036	401 105 2508	MT-GLAZE	20K	JA	1/16W
R7038	401 105 7909	MT-GLAZE	0.000	ZA	1/16W
R7039	401 105 7909	MT-GLAZE	0.000	ZA	1/16W

DIODE

D7001	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7002	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7003	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7004	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7006	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3
D7007	407 223 1102	ZENER DIODE 02DZ6.2Y(TPH3

MISCELLANEOUS

K70C	645 051 9611	PLUG,D-SUB 25P

ACCESSORIES

PRINTED MATTER / OWNER'S MANUAL

(English)	610 306 0675	OWNER'S MANUAL-MR3A
(Germany)	610 306 0682	OWNER'S MANUAL-MR3A-D
(French)	610 306 0699	OWNER'S MANUAL-MR3A-F
(Italian)	610 306 0705	OWNER'S MANUAL-MR3A-I
(Spanish)	610 306 0712	OWNER'S MANUAL-MR3A-E
	610 306 7049	LENS INST MANUAL-MR3A

REMOTE CONTROL

	645 060 2238	ASSY,REMOCON CXPC
	610 302 4196	RC-BATTERY LID-CXLZ

⚠ AC CORD

(US)	645 054 1162	CORD,POWER-3.0MK
(EU)	645 054 1155	CORD,POWER-3.0MK
(UK)	645 054 1148	CORD,POWER-3.0MK

CABLE AND ADAPTER

	645 039 7219	CABLE,MOUSE SERIAL
	610 234 0969	CABLE,REMOTE
	645 061 5115	CABLE,USB
	645 057 2999	CABLE,INTERFACE VGA

MISCELLANEOUS

	610 294 3351	COVER,DUST-MA8A

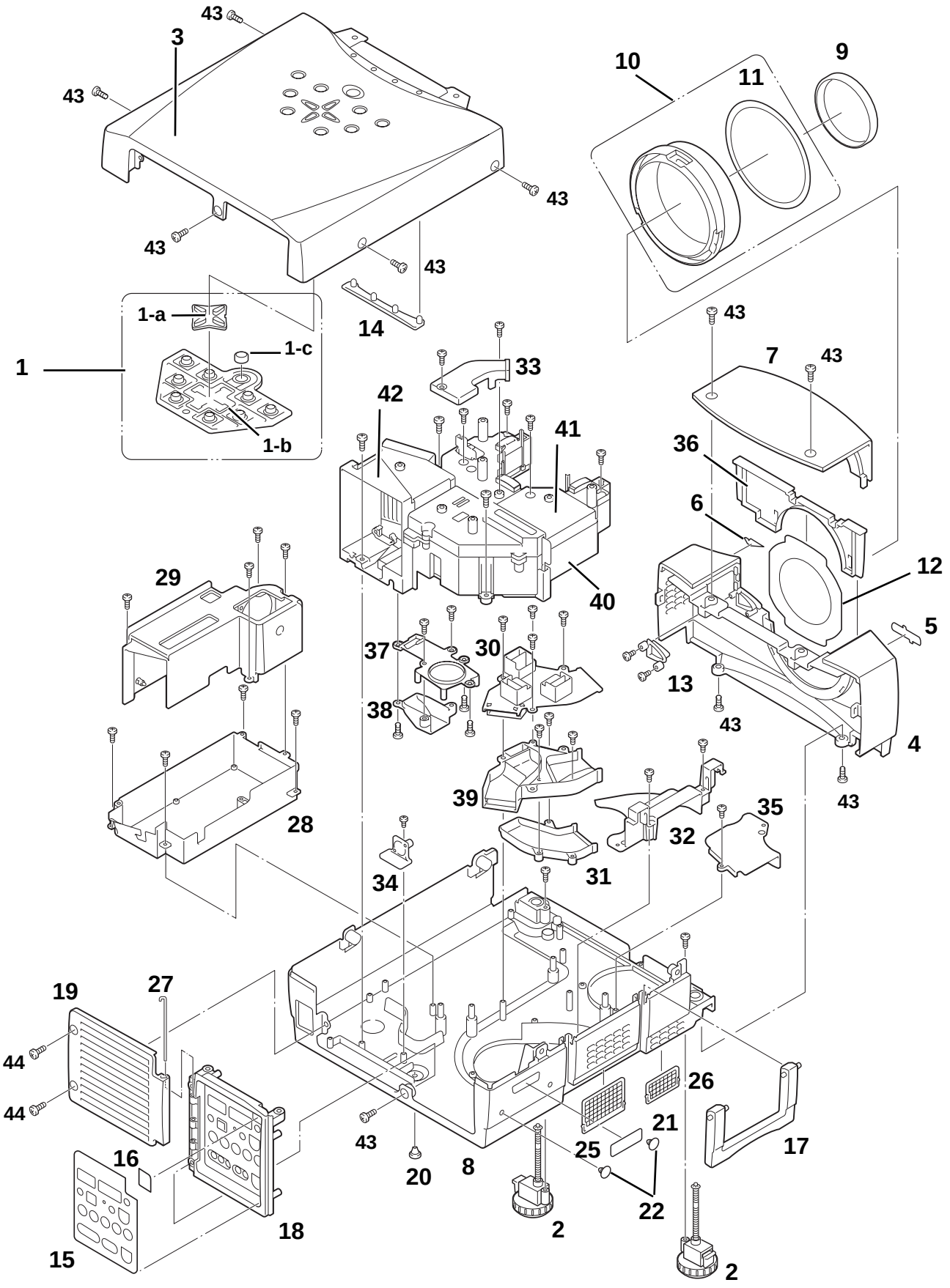
Service parts for PLC-XP55L(without lens model) only as follows :

A	610 306 6707	ASSY,MOUNTING LENS-MR3A
A-1	610 306 6691	ASSY,MOUNTING LENS A-MR3A
A-2	412 062 4009	SPECIAL SCREW
B	610 301 6658	ASSY,SPACER BF-MY8A

■ Mechanical Parts List

Note: Parts order must contain Chassis No., Part No., and Descriptions.

● CABINET PARTS

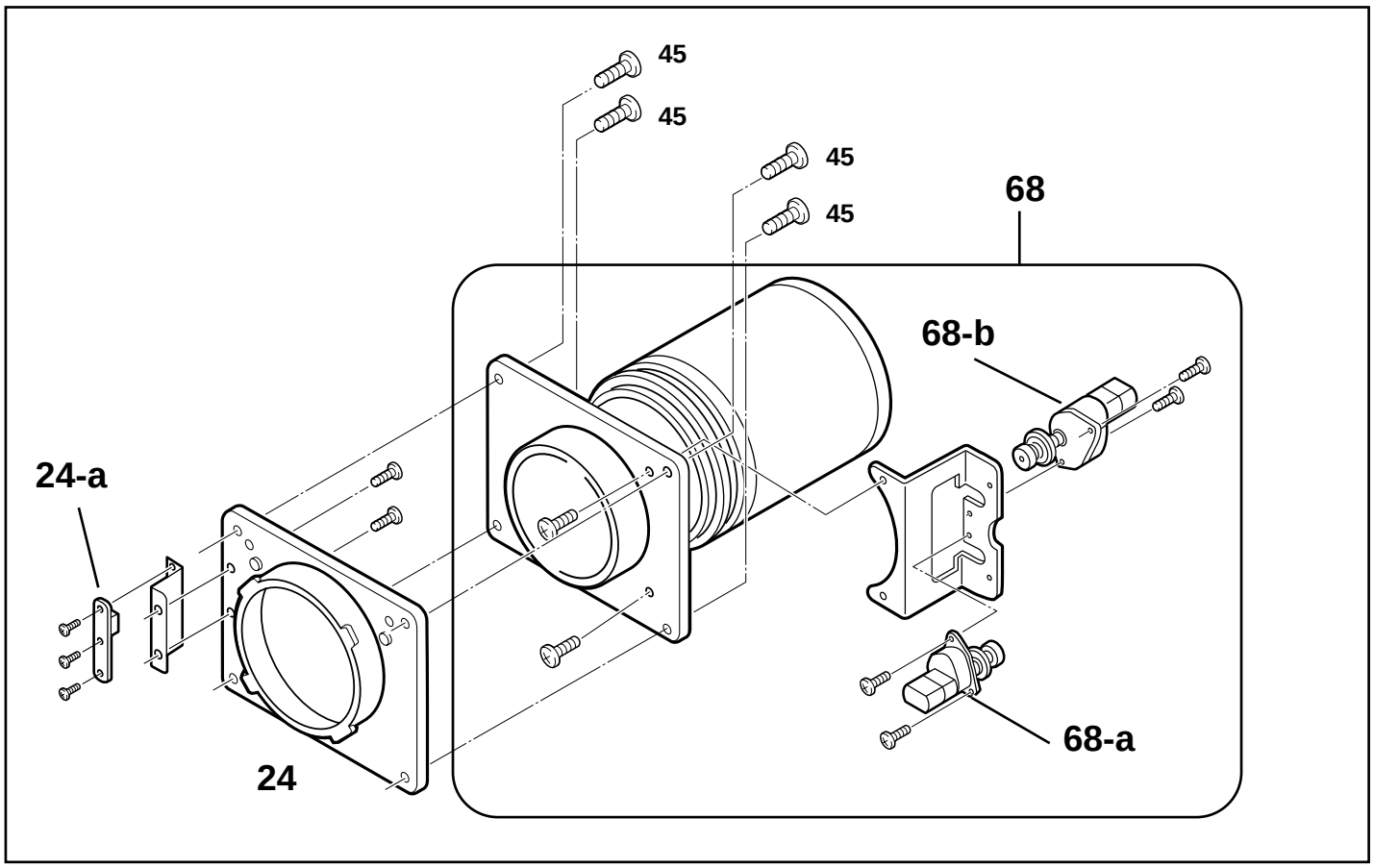


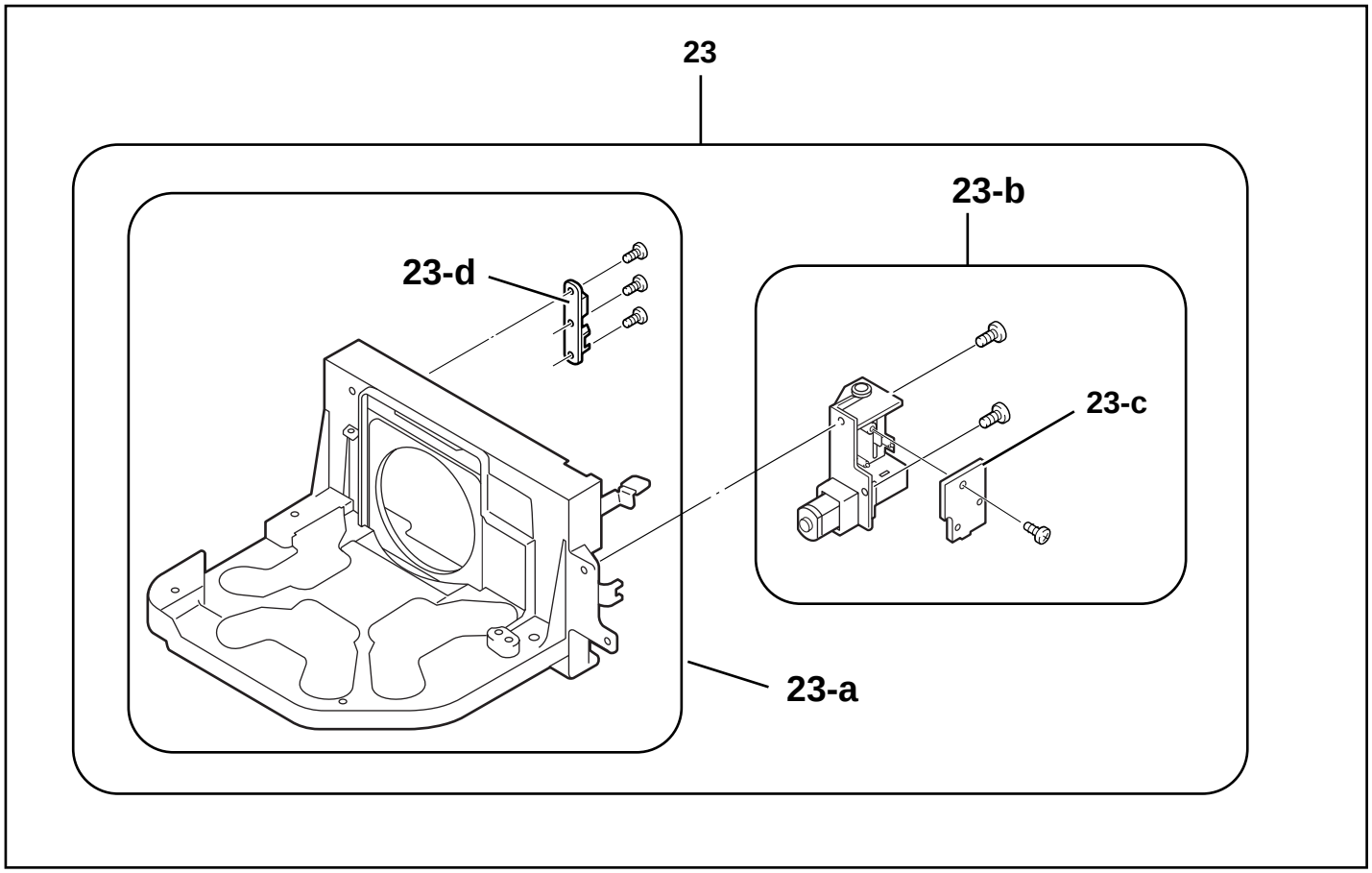
Key No.	Part No.	Description
CABINET PARTS		
1	610 293 5493	ASSY,BUTTON-MA8A
		(Including Key No. 1-a, b, c)
1-a	610 294 2637	BUTTON U/D-MA8A
1-b	610 293 5554	BUTTON-MA8A
1-c	610 293 5875	CAP BUTTON-MA8A
2	610 293 5547	COMPL,STAND LEG-MA8A
3	610 293 5561	CABINET TOP-MA8A
4	610 296 5667	CABINET FRONT SERVICE-MA8
		(Including Key No. 5, 6)
5	645 048 6043	BADGE,SANYO*35.0X7.5L35.0
6	610 289 1812	BADGE V MARK S-MK6A
7	610 293 5585	CABINET FRONT A-MA8A
8	610 297 3921	CABINET BOTTOM-MA8AA
9	610 294 9360	CAP LENS-MA8A
10	610 296 5872	COVER CABINET FRONT SRV-M
		(Including Key No. 11)
11	610 294 5225	DEC RING-MA8A
12	610 293 9804	COVER LNS E-MA8A(B05900)
13	610 293 5899	DEC INLAY RC-MA8A
14	610 293 5912	DEC INLAY LED-MA8A
15	610 308 1205	DEC AV SHEET-MR3A
16	610 293 5936	DEC SHEET RC-MA8A
17	610 310 5598	COMP,HANDLE SERVICE-MA8A
18	610 293 5615	PANEL AV-MA8A
19	610 293 5622	PANEL FAN-MA8A
20	610 293 9972	SPACER LEG-MA8A
21	610 297 7929	SPACER COVER NWMG-MA8AA
22	610 297 7936	SPACER COVER SCREW NWMG-M
CHASSIS PARTS		
23	610 306 5182	COMPL,HOLDER LNS A MR3A
		(Including Key No.23-a,b)
23-a	610 306 5946	COMPL,HOLDER LNS BASE MR3
23-b	610 306 5953	ASSY,HOLDER MTR-MR3A
23-c	645 060 3785	UNIT,MOUNTING LNS BASE MR
23-d	610 306 6639	ASSY,PWB,LENS-BASE NET MR
24	610 306 6691	ASSY,MOUNTING LENS A-MR3A
24-a	610 306 5922	ASSY,PWB,BASE NET MR3A
25	610 303 8773	ASSY,PANEL NET A-MA8AA
26	610 303 8780	ASSY,PANEL NET B-MA8AA
27	610 293 6131	MOUNTING SHAFT-MA8A
28	610 293 6162	MOUNTING POW BTM-MA8A
29	610 299 5381	MOUNTING POW TOP-MA8AA
30	610 309 7701	MOUNTING DUCT TOP-MR3A
31	610 293 6209	MOUNTING DUCT B COVER-MA8
32	610 293 6216	MOUNTING DUCT FAN A-MA8A
33	610 308 9652	MOUNTING DUCT PBS-MR3A
34	610 293 6230	MOUNTING TEMP SW-MA8A
35	610 293 6650	MOUNTING DUCT FAN B-MA8A
36	610 293 9934	MTG COVER LNS-MA8A
37	610 297 4003	MOUNTING DUCT LMP TOP-MA8
38	610 297 4010	MOUNTING DUCT LMP BTM-MA8
39	610 308 0062	MOUNTING DUCT BTM-MR3A
40	610 306 5403	OPTICAL BASE BTM-MA8AA-B
41	610 293 4847	OPTICAL BASE TOP-MA8A
42	610 299 2939	OPTICAL LAMP COVER-MA8AA
SCREWS-CABINET-		
43	411 098 1402	SCR S-TPG BIN 4X10
44	412 063 7900	SPECIAL SCREW(SILVER)
45	412 062 4009	SPECIAL SCREW
SCREWS-CHASSIS-		
46	411 174 9308	BOLT HEX-SCT+SW+W 2.5X6
47	411 174 9407	BOLT HEX-SCT 2.5X6
48	411 030 7301	SCR BIN 2X6
OPTICAL PARTS DIRECTORY		
49	645 041 3711	ASSY,PRISM(PBS)
50	645 050 7502	LENS,CONDENSER (G)
51	645 024 9037	LENS,CONDENSER
52	645 047 2831	LENS,INTEGRATOR(IN)
53	645 063 0576	LENS,INTEGRATOR(OUT)
54	645 047 2855	LENS,CONDENSER(IN)
55	645 047 2862	LENS,CONDENSER(OUT)
56	645 047 2879	LENS,CONDENSER(R)
57	645 047 2886	LENS,RELAY(IN)
58	645 047 2893	LENS,RELAY(OUT)
59	645 044 2575	MIRROR(R)
60	645 047 7508	MIRROR(W-COLD)
61	645 047 7515	MIRROR(B)
62	645 053 8308	OPTICAL FILTER(UV CUT431)
63	645 060 3846	POLARIZED GLASS(IN/R)45
64	645 060 3853	POLARIZED GLASS(IN/G)45
65	645 060 3860	POLARIZED GLASS(IN/B)45
66	645 050 7892	DICHROIC MIRROR (G)
67	645 047 2923	DICHROIC MIRROR (B)
68	645 047 2770	ASSY,LENS,PROJECTION
		(Including Key No. 51-a, b)
68-a	645 020 7570	MOTOR,LENS DC 0.5W
68-b	645 023 0202	MOTOR,LENS DC 0.2W
69	610 309 3536	ASSY,LCD PNL/PRISM-MR3A
		(Including Key No. 69-a to f)
69-a	645 059 7992	OPTICAL FILTER (WV-SA)45
69-b	645 057 4801	POLARIZED GLASS(OUT/R)45
69-c	645 057 4818	POLARIZED GLASS(OUT/G)45
69-d	645 057 4825	POLARIZED GLASS(OUT/B)45
69-e	645 063 1979	PREPOLARIZED GLASS(45SA)

DIFFERENCE by MODELS

PLC-XP55 only: Key No. 9,12,68

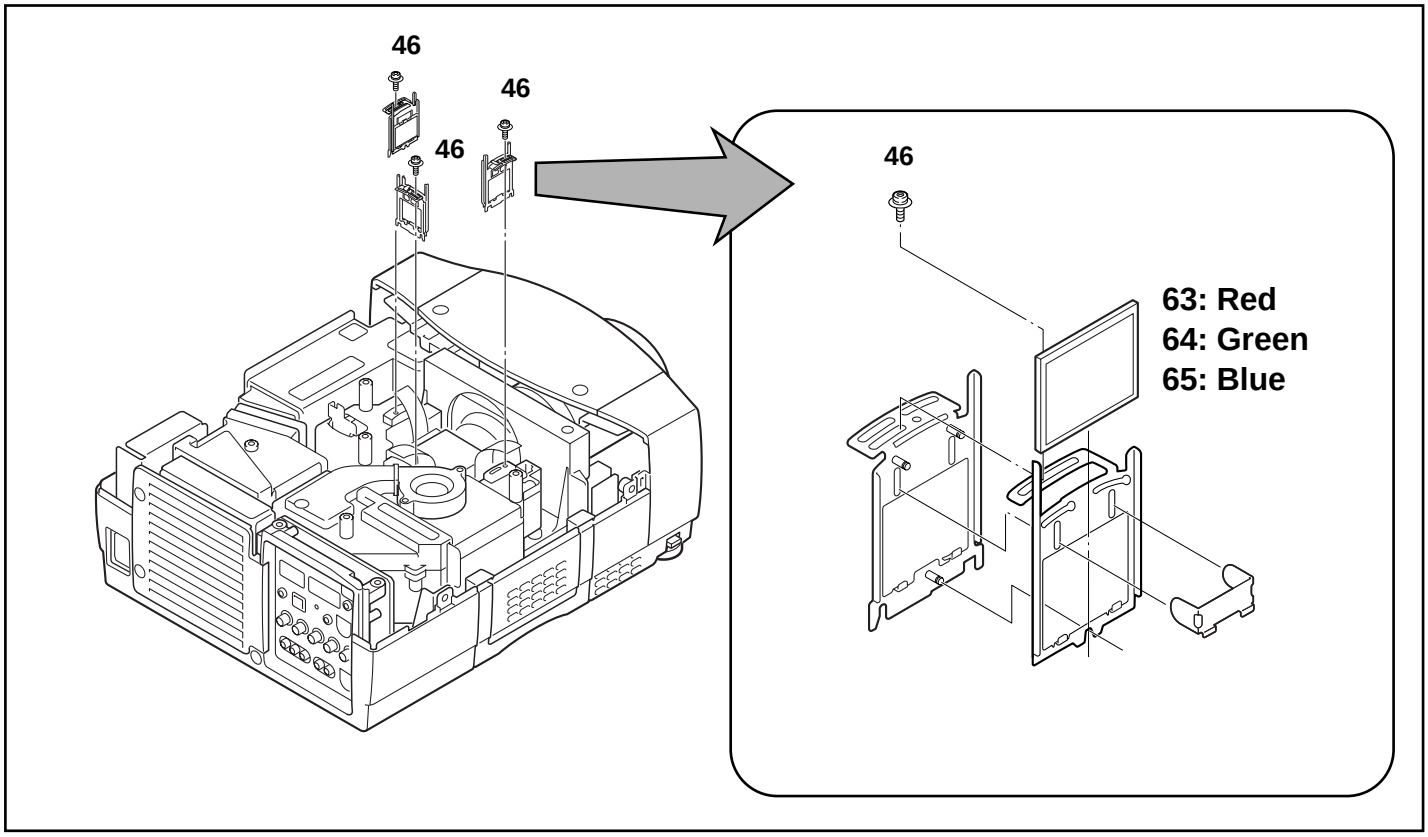
PLC-XP55L only: Nothing

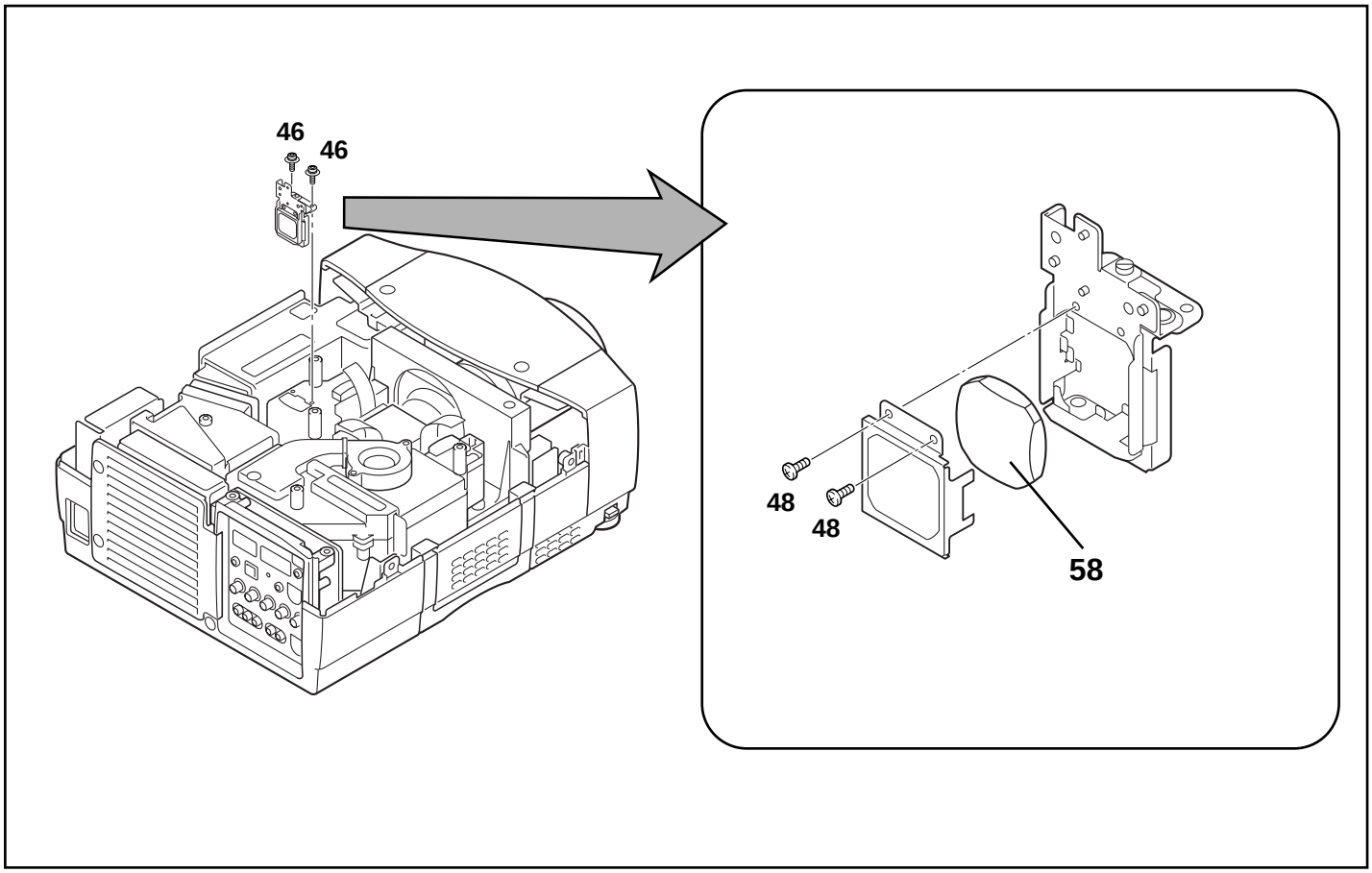

45
45
45
45
68
68-b
24-a
68-a
24

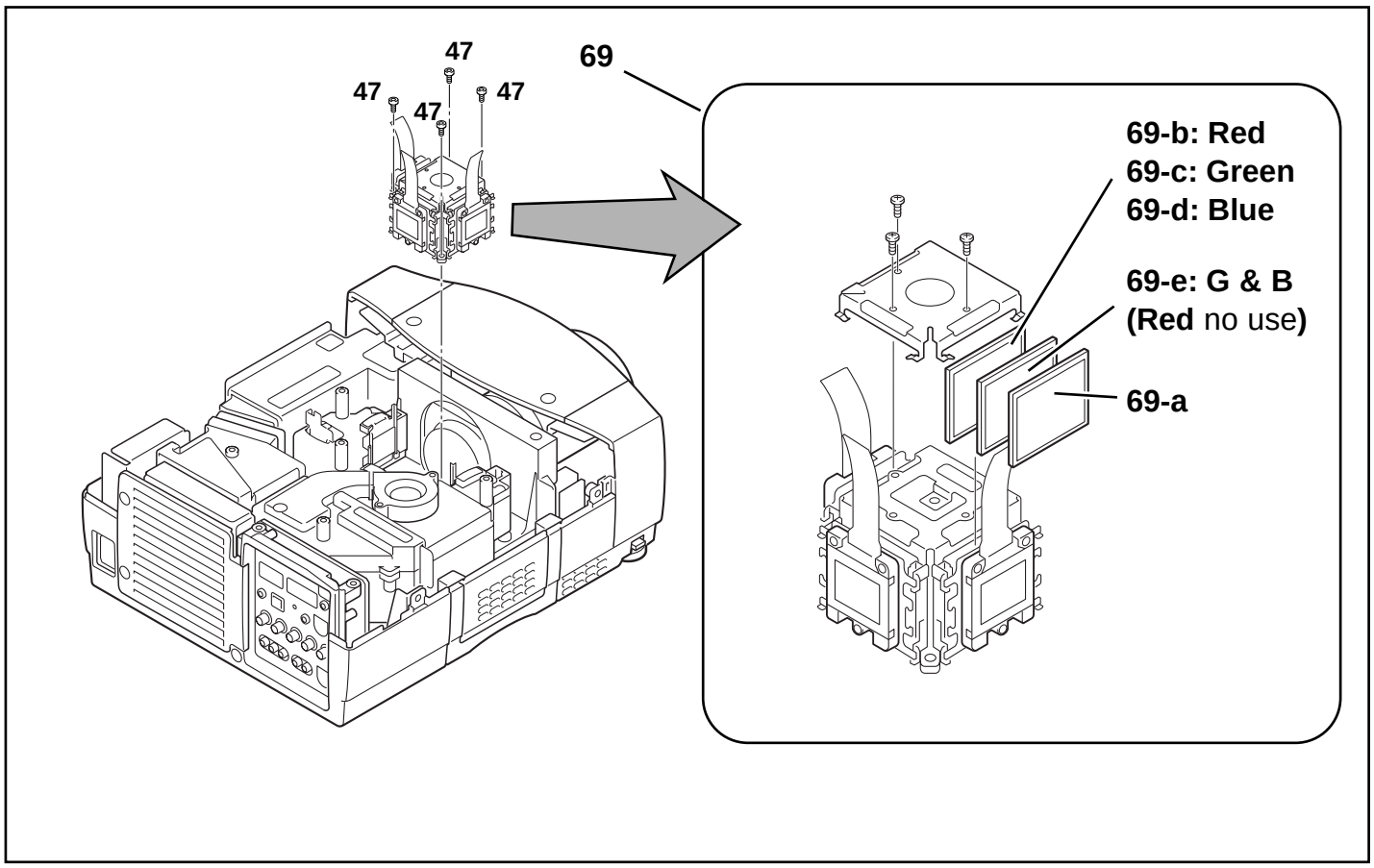

23
23-b
23-d
23-c
23-a

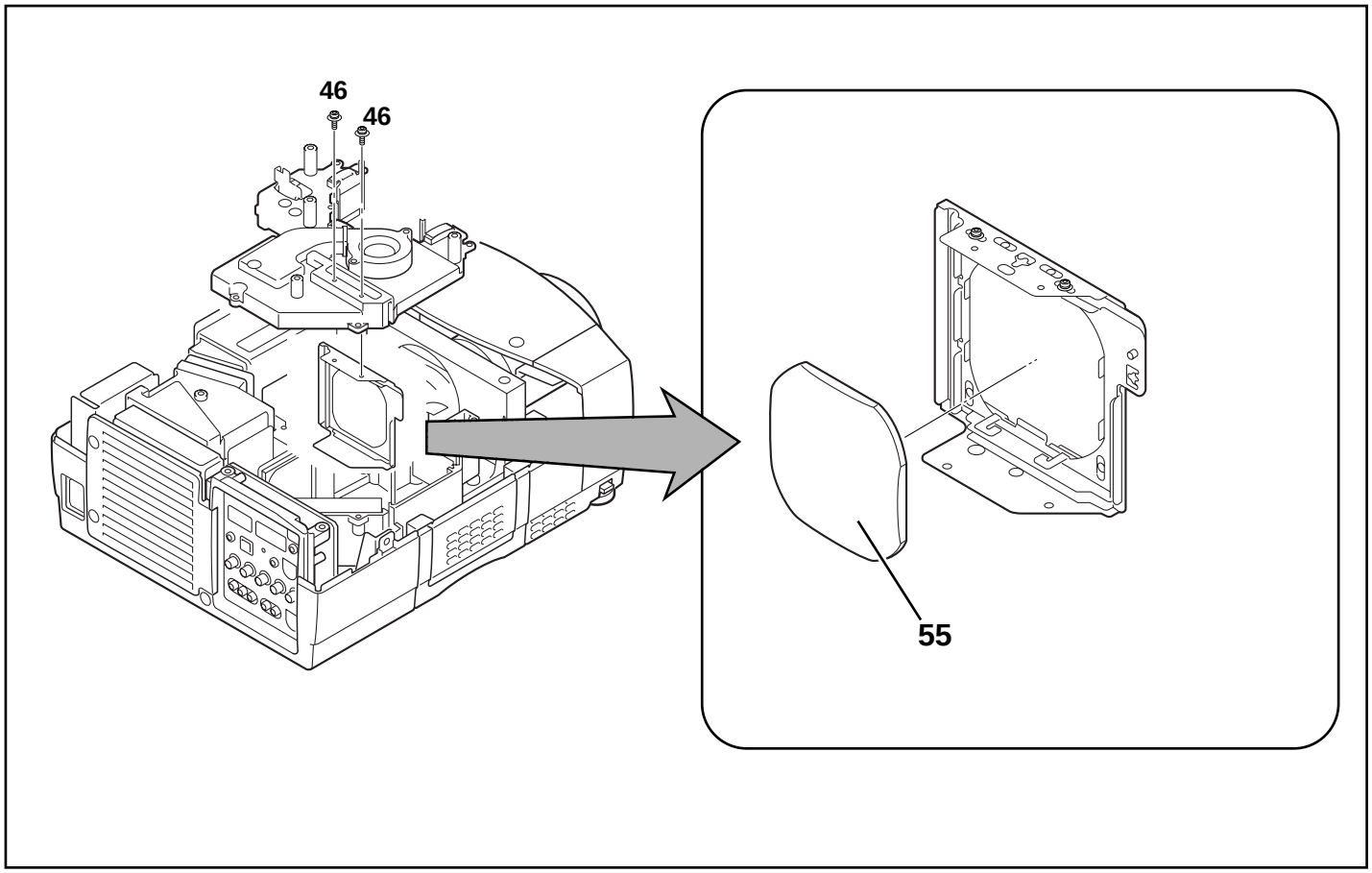
■ Optical Parts List

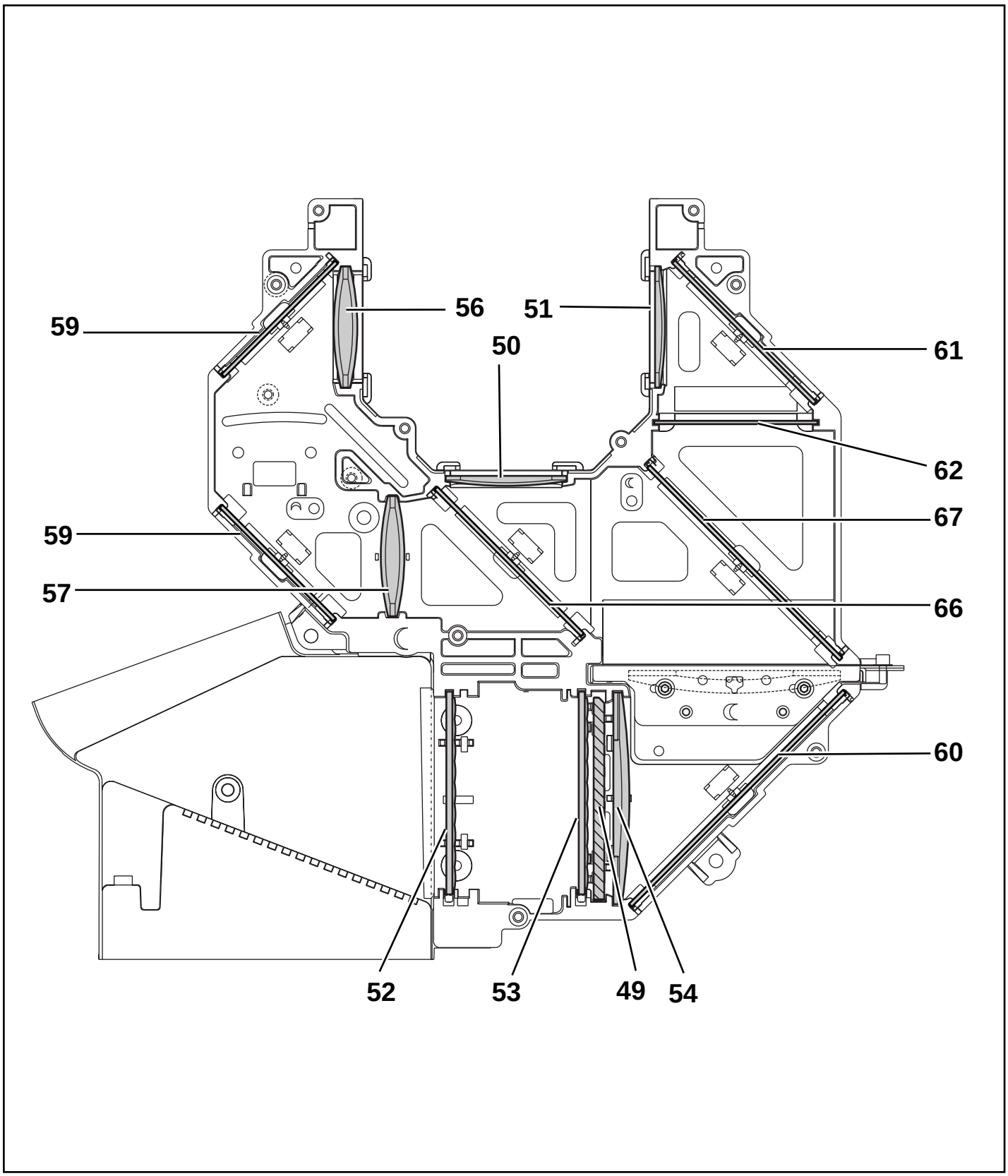
Note: Parts order must contain Chassis No., Part No., and Descriptions.






47
47
47
47
69
69-b: Red
69-c: Green
69-d: Blue
69-e: G & B
(Red no use)
69-a


46
46
55



CAUTION:
Part must be placed in specified direction when replacing the optical parts. Please see “Optical Parts Disassemblies” for further instructions.

(MR3A) Jul. 2003 BB 400 Printed in Japan

SANYO Electric Co., Ltd.

Schematic Diagrams
Printed Wiring Board Drawings

Model

PLC-XP55, PLC-XP55L

This model is constructed by following boards, and the information of part numbers and values indicated on these diagrams are at the beginning of production. To improve the performance, there may be some differences to the actual set. When you order the service parts, use service parts code mentioned on the parts list in this service manual.

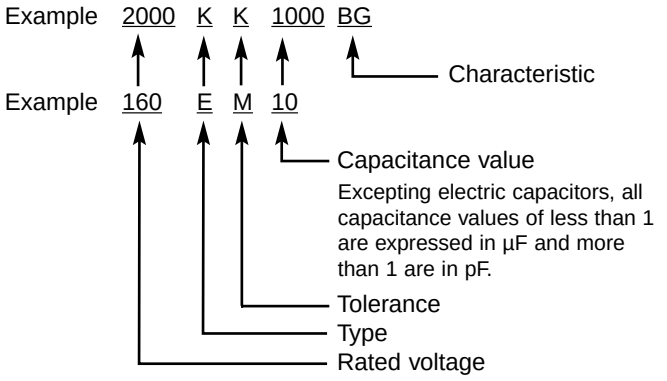
Board Name	Board Number
MAIN BOARD	1AA0B10C42900
A/V BOARD	1AA0B10C4310A
I/F BOARD	1AA0B10C4310B
POWER BOARD	1AA0B10C4300A
SUB POWER BOARD	1AA0B10C4300B
SUB DRIVE BOARD	1AA0B10C4300C
FILTER BOARD	1AA0B10C4300D
CONTROL BOARD	1AA0B10C3390A
RC FRONT BOARD	1AA0B10C3390C
SENSOR1 BOARD	1AA0B10C3390E

These schematic diagrams and printed wiring board drawings are a part of the service manual original for model PLC-XP55 and PLC-XP55L. File with the service manual.

■ Parts description and reading in schematic diagram

1. The parts specification of resistors, capacitors and coils are expressed in designated code. Please check the parts description by the following code table.
2. Some of transistors and diodes are indicated in mark for the substitution of parts name. Please check the parts name by the following code table.
3. Voltages and waveforms were taken with a video color bar signal(1Vp-p at 75 ohms terminated) and controls to normal.
4. Voltages were taken with a high-impedance digital voltmeter.

Capacitor Reading


Example 2000 K K 1000 BG
Characteristic
Example 160 E M 10
Capacitance value
Excepting electric capacitors, all capacitance values of less than 1 are expressed in µF and more than 1 are in pF.
Tolerance
Type
Rated voltage

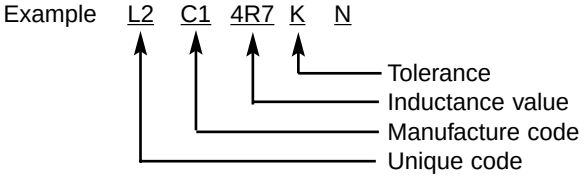
Material table

Mark	Material
E	Electrolytic
P	Electrolytic (non-polarized)
C	Ceramic (temperature compensation)
K	Ceramic
F	Polyester
N	Polypropylene
M	Metalized polypropylene
H	Metalized polypromylar
B	Ceramic (semiconductor)
G	Metalized polyestel
Y	Composite film
S	Styrol
T	Tantalum oxide solid electrolytic
U	Organic semiconductive electrolyte
D	Electric double layer electrolytic

Tolerance table

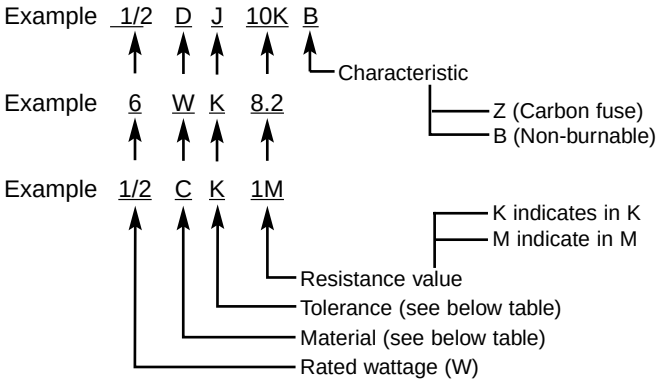
Mark	Tolerance
A	not specified
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
E	±2.5
H	±3
J	±5
K	± 0
M	±20
N	±30
P	+100 -0
Q	+30 -10
T	+50 -10
U	+75 -10
V	+20 -10
W	+100 -10
X	+40 -20
Y	+150 -10
Z	+80 -20

Coil Reading



Mark	Tolerance (nH)	Mark	Tolerance (%)
C	±0.25	G	±2
D	±0.5	J	±5
S	±0.3	K	±10
A	±0.2	L	±15
		M	±20

Resistor Reading



Note: Resistor which is indicated with resistance value only are 1/6W carbon resistor. Resistor which is indicated with material, tolerance and value are 1/4W rated wattage.

Material table

Mark	Material
D	Carbon
N	Metal film
S	Oxide metal film
C	Solid
G	Metal glaze
W	Wire wounding or cement
H	Ceramic
F	Fusible

Tolerance table

Mark	Tolerance
A	±0.05
B	±0.1
C	±0.25
D	±0.5
F	±1
G	±2
J	±5
K	±10
M	±20
P	+5 -15
Z	used in 0 ohm

Diode/Transistor Type Reading

Diode

Mark	Type number
R	1S2076A,1S2473,1N4148
AA	1S2076A,1S2473,1SS133,1N4148

Transistor

(1) NPN type

Mark	Type number				
--	2SC536	2SC945A	2SC1815	2SC1740S	
AD	NF, NG	PA, QA	Y, GR	Q, R, S	
AE	NF, NG	PA, QA, RA	O, Y, GR	Q, R, S	

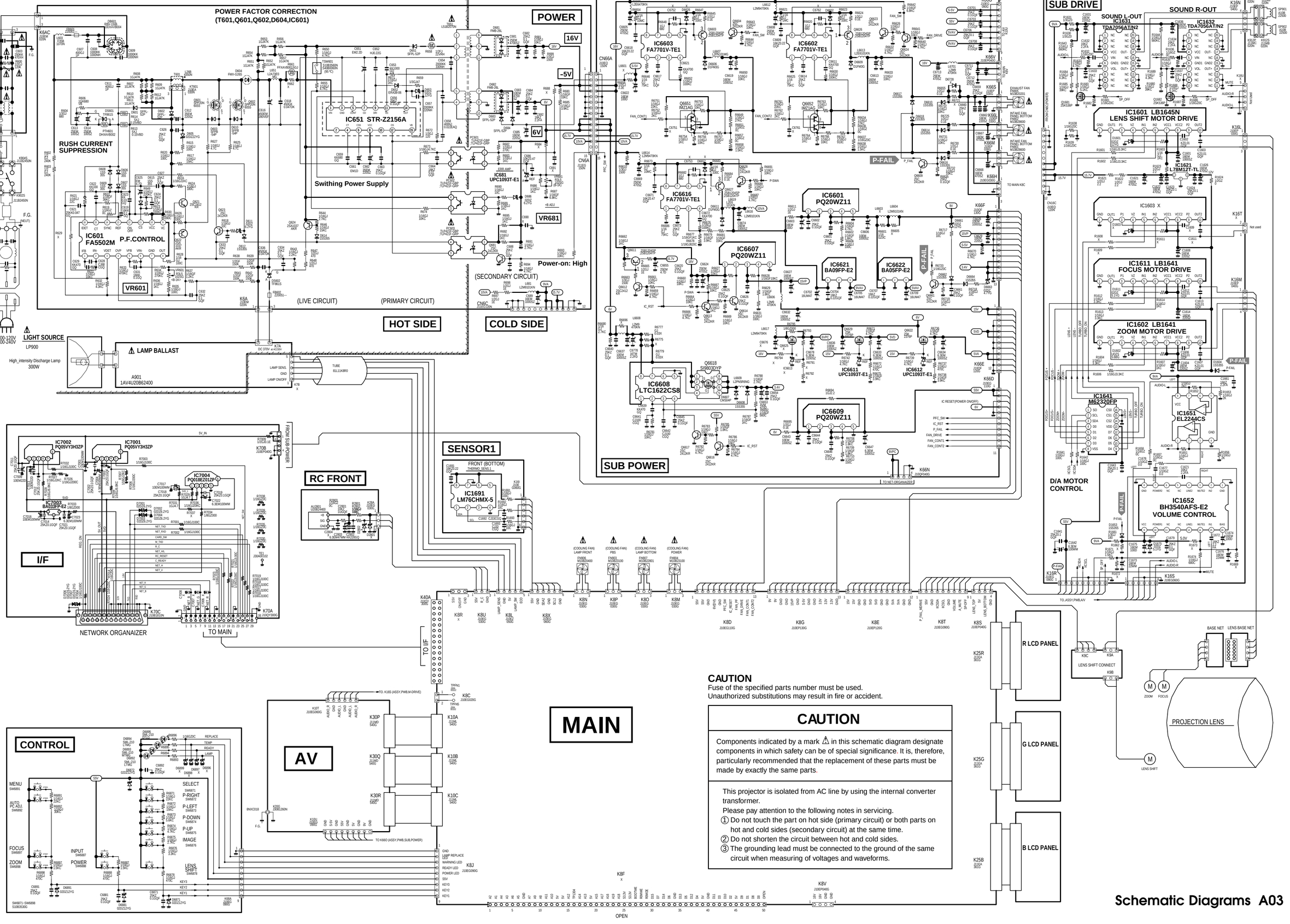
(2) PNP type

Mark	Type number				
--	2SA608	2SA564A	2SA1015	2SA933S	
AB	NF	R	Y, GR	R	
AC	NF	Q, R	O, Y, GR	Q, R	

(3) Chip type

Mark	Type number				
--	2SA1179/N	2SA1037K	2SA1037AK	2SC2812/N	2SC2412K
AJ	M6, M7	R, S	R, S		
AH				L6, L7	R, S

■ Schematic Diagrams



CAUTION
Fuse of the specified parts number must be used.
Unauthorized substitutions may result in fire or accident.

CAUTION

Components indicated by a mark ⚠ in this schematic diagram designate components in which safety can be of special significance. It is, therefore, particularly recommended that the replacement of these parts must be made by exactly the same parts.

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing.
① Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
② Do not shorten the circuit between hot and cold sides.
③ The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

Schematic Diagrams A03

Schematic Diagrams A04
AV Board

INPUT-1 RGB ANALOG IN/OUT

INPUT-2 RGB ANALOG, CVBS, COMPONENT INPUT

INPUT-3 S-VIDEO, CVBS, COMPONENT INPUT

INPUT-1 RGB DIGITAL INPUT

IC1201 AD8185ARU — RGB CG1/CG2 SW

IC1202 AD8075ARU — RGB MONITOR OUT SW

IC5301 TC4053BFT-(EL) — PC1_H/V SYNC MONITOR OUT SYNC CHANGE

IC5302 TC4053BFT-(EL) — CG SYNC SW

IC5312 AD8057ART

IC5303 SN74AHCT1G14DBVR

SYNC SEPARATOR IC5304 BA7078AF-E2

IC5306 SN74AHCT1G126DCK

IC5307 SN74AHCT1G126DCK

IC5308 TC7W241F-U(TE12L)

REAR R/C RECEIVER

RESET_SW

CONTROL PORT

IC4101 CXA2151Q — VIDEO SIGNAL SELECTOR

IC4102 TC7SH02FU(TE85L)

IC4105 TC7SH14FU(TE85L)

IC4145 AD8057ART

IC7302 TC7SH14FU(TE85L)

IC7301 TA1370FG

IC7303 TC7SH14FU(TE85L)

CSYNC SW IC4104 NJM2535V

IC5002 TC4W66F-TE12L

IC5001 TC4052BFT

IC3001 PC113B

AUDIO SELECTOR

AUDIO MONITOR OUT SW

AUDIO_OUT

DRIVE " K16S "

IC3804 TC7SH00FU-(TE85L)

IC3802 TWM7000-170010 AIR MOUSE INTERFACE

IC3803 TWM7000-210010 AIR MOUSE DECODER

IC3807 SN74HCT244PW

IC3801 HIN232CB RS232C DRIVER

DC_POWER

MAIN " K10A "

MAIN " K10B "

MAIN " K10C "

MR3A-02

SCH_MR3A

A4

IC1101
UPD64083GF-3BA

NTSC
3D Y/C
SEPARATOR

IC1102
BA033FP-E2
; UPC2933T-E1

IC1161
PQ2T215
; PQ025EZ01ZP

IC3102
BA05FP-E2

IC3103
BA05PF-E2

IC3101
TB1274AF
VIDEO
DECODER

IC1141
TC4053BFT-(EL)

IC141
MM1031XM

IC2101
TC90A69F

PAL-Y/C
SEPARATOR

IC4531
TC4053BFT-(EL)

IC4521
AD8057ART

IC4501
NJM1496V

IC4502
TC74LCX14FT

H/V SYNC

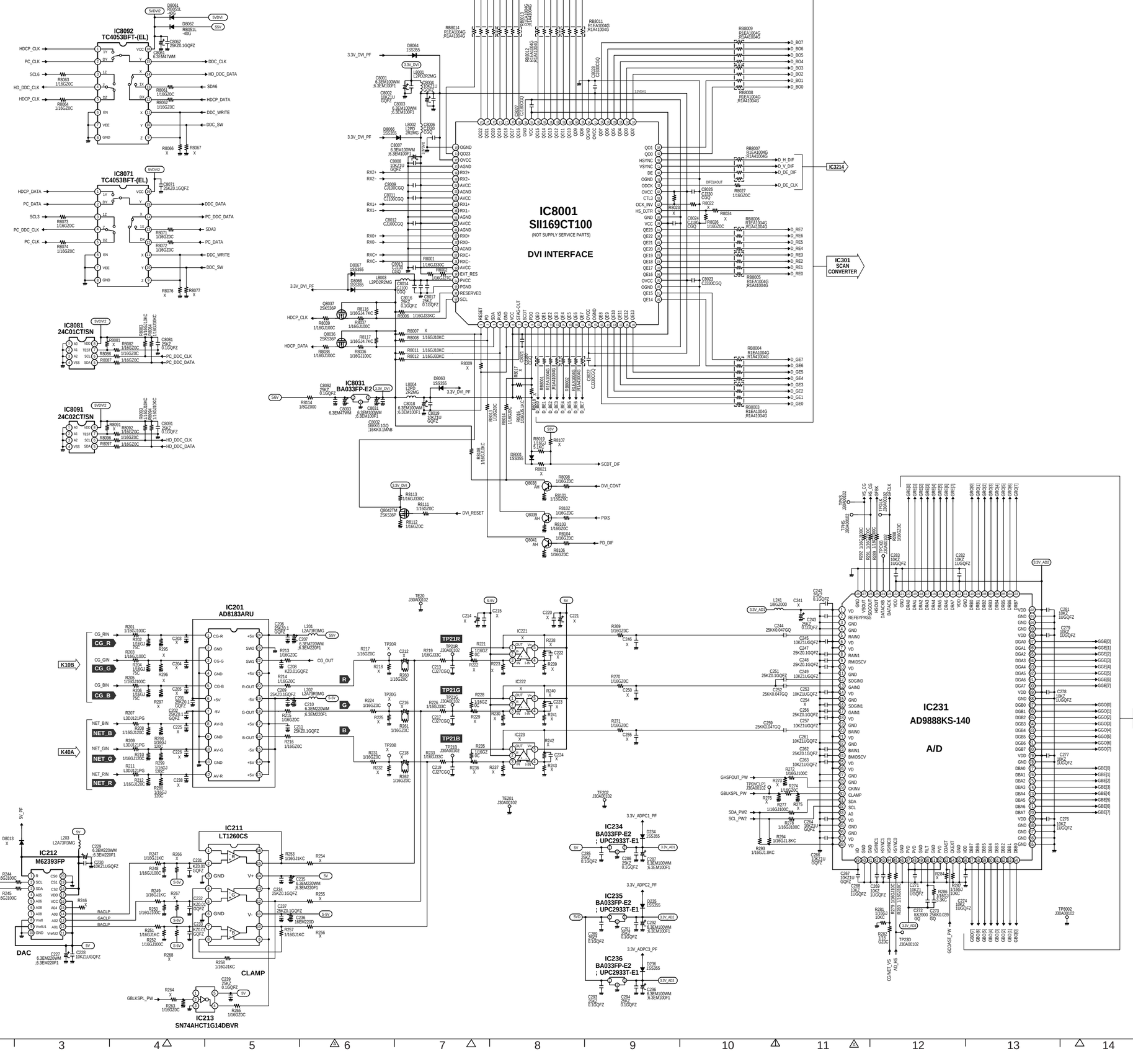
IC4503
TC4W53FU(TE12L)

IC4541
TC74LCX125FT(EL)

NTSC/PAL-SW

FSC_CLK

Schematic Diagrams A05
Main Board P.1/6



Schematic Diagrams A06
Main Board P.2/6

IC4201
TC240C4FTB-C006(0)
<TOP_VIEW>
I/P CONVERTER

IC2311
MB40C348VPFV
A/D

IC4251
TC74VCX16374FT

IC4261
TC74VCX16374FT

IC4271
TC74VCX16374FT

IC4281
TC74LCX541FT

IC4231
ICS1523M-ER
VCO

IC6301
MS82V16520-8AGA
SGRAM

IC6302
MS82V16520-8AGA
SGRAM

IC6303
MS82V16520-8AGA
SGRAM

IC6304
MS82V16520-8AGA
SGRAM

IC4551
AD8057ART

IC4552
AD8057ART

IC4553
AD8057ART

IC8611
SI-3025LSA-TL

IC2341
LT1260CS
CLAMP

IC2351
BA033FP- E2
: UPC2933T-E1

IC2353
BA033FP- E2
: UPC2933T-E1

IC2401
TC7W04F-(TE12L)

IC2402
TC74HC4040AF(EL)
BINARY COUNTER

IC2403
TC7W02FU(TE85L)

IC2404
TC7S08FU(TE85L)

IC9405
M62392FP
DAC

IC7209
MC74HC08AD

IC7210
TC7S32FU-TE85L

V-GATE BOARD

K7211
310EG080G

Schematic Diagrams A07
Main Board P.3/6

IC3211
TC74VCX16244FT

IC3212
TC74VCX16244FT

IC3213
TC74VCX16244FT

IC3214
74LCX541FT

IC3224
74LCX541FT

IC3251
74LCX541FT

DVI_H/VSYNC

CG_H/VSYNC

NET_H/VSYNC

IC391
UPC2933T-E1
; BA033FP-E2

IC392
SI-3025LSA-TL

IC301
PW365-10U

BOTTOM_VIEW

SCAN
CONVERTER
&
SYSTEM
CONTROL

IC9401
ENHANCER

IC304
24LC16BT/SN-T

EEPROM

IC306
TC7S32FU-TE85L

IC341
IDT71V016S15PHTR
; IC61LV6416-15T

SRAM

IC351
MBM29LV800TA90C208A

FLASH
ROM

IC361
ICS512MT

IC362
ICS512MT

CLOCK

KBW
Not used

KBH
1/16EG060G

ROMWE

BOOTWE

RAMWE

RAMOE

BHEN

PW3_RESET

PW3_INTR

ICE_RESET

NMI_PW

PW_RXD

PW_TXD

SDA_PW2

SCL_PW2

CS2

CS3

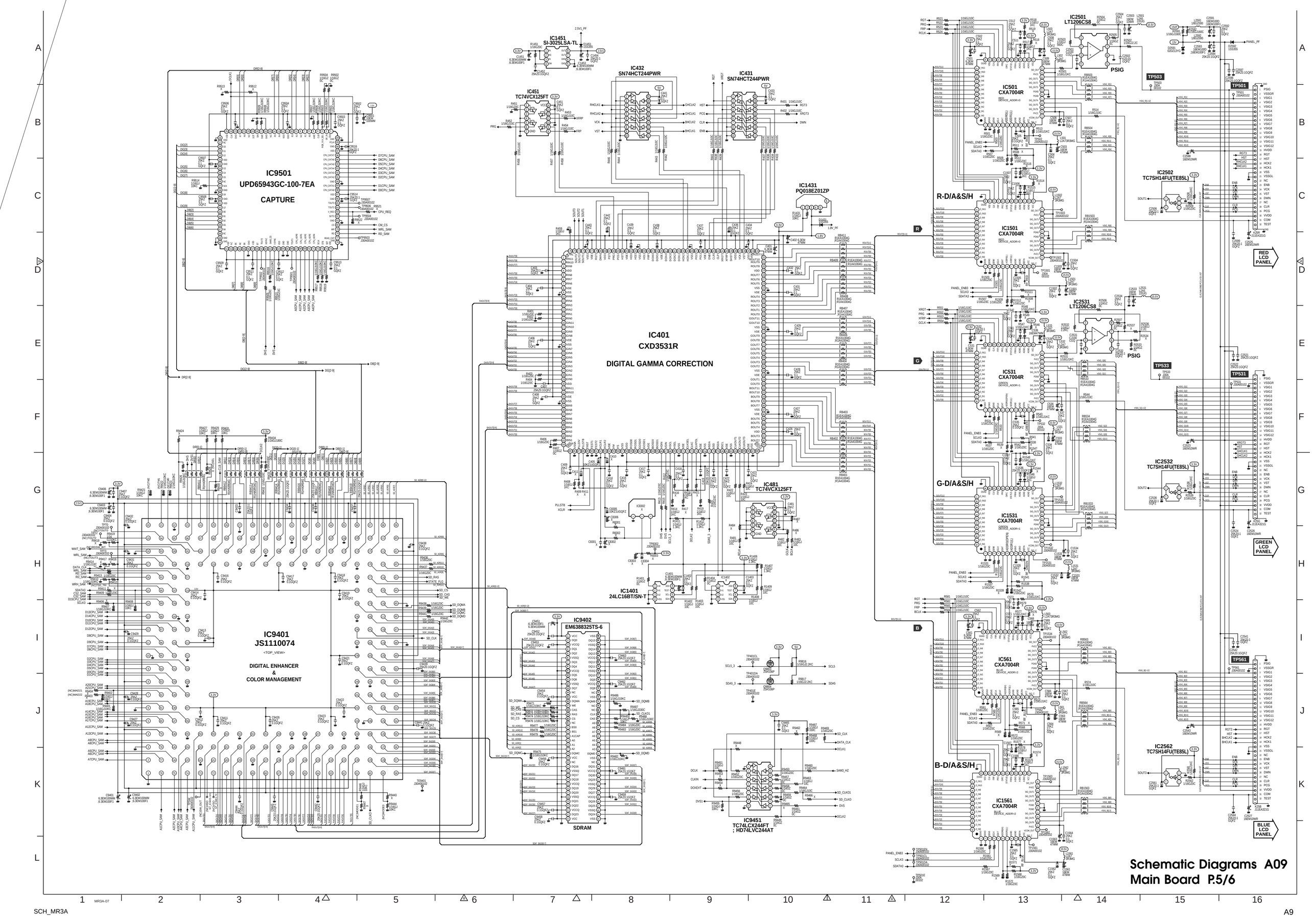
BHEN

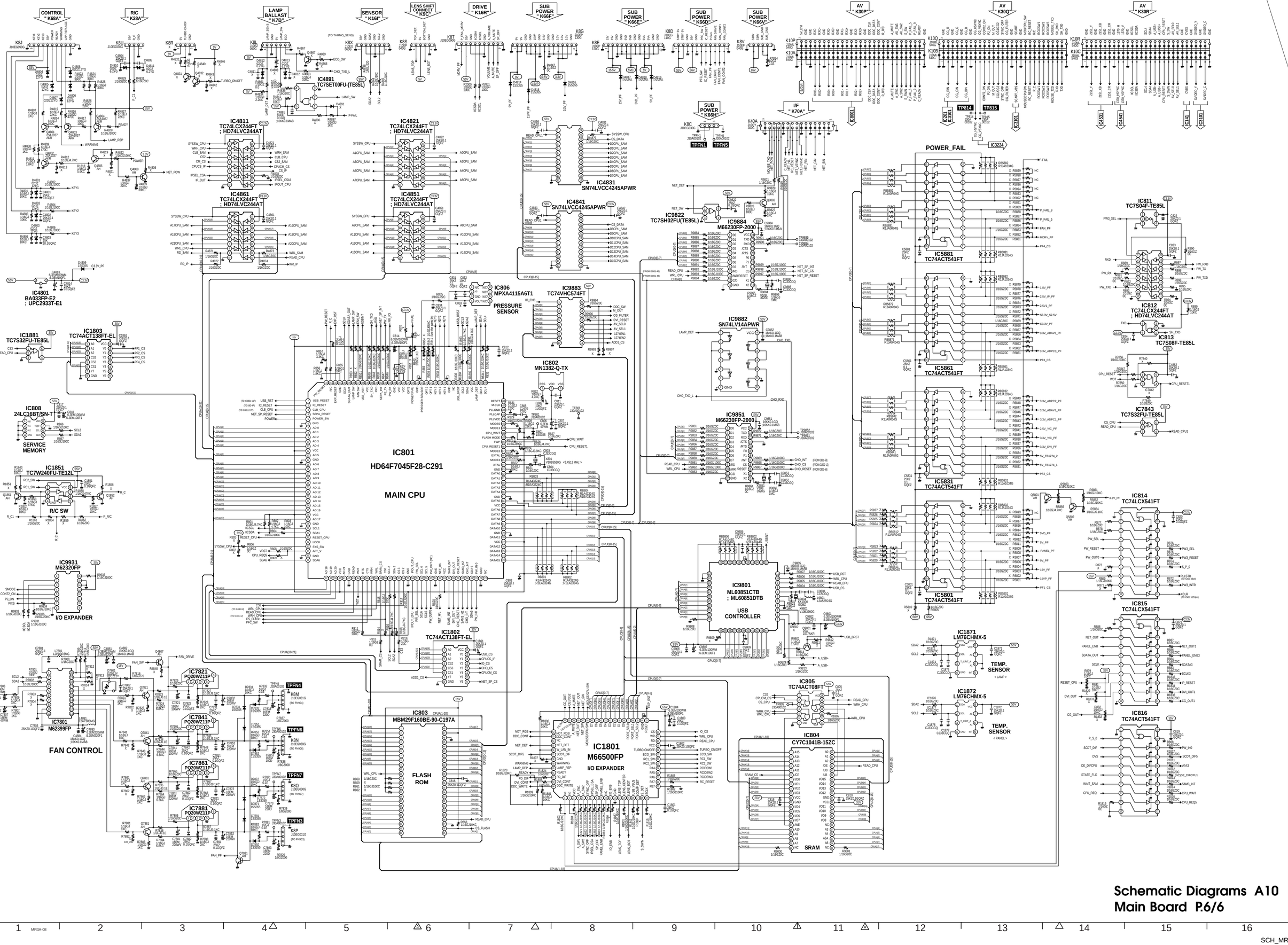
Schematic Diagrams A08
Main Board P.4/6

MR3A-06

A8

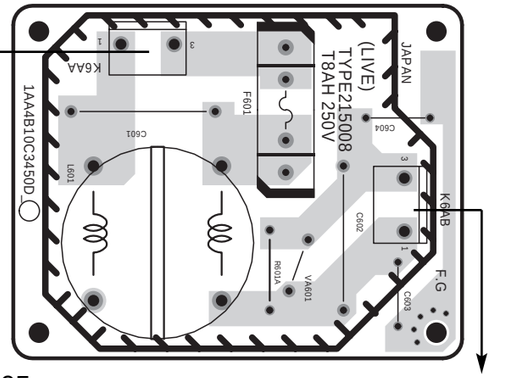
SCH_MR3A


IC9501
UPD65943GC-100-7EA
CAPTURE
IC9401
JS1110074
<TOP_VIEW>
DIGITAL ENHANCER
&
COLOR MANAGEMENT
IC401
CXD3531R
DIGITAL GAMMA CORRECTION
IC1451
SI-3025LSA-TL
IC451
TC74VCX125FT
IC432
SN74HCT244PWR
IC431
SN74HCT244PWR
IC1431
PQ018EZ01ZP
IC1401
24LC16BT/SN-T
IC9402
EM638325TS-6
SDRAM
IC9451
TC74LCX244FT
; HD74LVC244AT
IC481
TC74VCX125FT
IC2501
LT1206CS8
IC501
CXA7004R
PSIG
R-D/A&S/H
IC1501
CXA7004R
IC2531
LT1206CS8
IC531
CXA7004R
PSIG
G-D/A&S/H
IC1531
CXA7004R
IC561
CXA7004R
B-D/A&S/H
IC1561
CXA7004R
IC2502
TC7SH14FU(TE85L)
IC2532
TC7SH14FU(TE85L)
IC2562
TC7SH14FU(TE85L)
R
G
B
RED
LCD
PANEL
GREEN
LCD
PANEL
BLUE
LCD
PANEL
Schematic Diagrams A09
Main Board P.5/6


CONTROL " K68A "
R/C " K28A "
LAMP BALLAST " K7B "
SENSOR " K16I "
LENS SHIFT CONNECT " K9C "
DRIVE " K16R "
SUB POWER " K66F "
SUB POWER " K66E "
SUB POWER " K66D "
SUB POWER " K66V "
SUB POWER " K66H "
AV " K30P "
AV " K30Q "
AV " K30R "
I/F " K70A "
POWER_FAIL
IC4811 TC74LCX244FT ; HD74LVC244AT
IC4821 TC74LCX244FT ; HD74LVC244AT
IC4831 SN74LVCC4245APWR
IC4841 SN74LVCC4245APWR
IC4851 TC74LCX244FT ; HD74LVC244AT
IC4861 TC74LCX244FT ; HD74LVC244AT
IC4801 BA033FP-E2 ; UPC2933T-E1
IC1881 TC7S32FU-TE85L
IC1803 TC74ACT138FT-EL
IC808 24LC16BT/SN-T
SERVICE MEMORY
IC1851 TC7W240FU-TE12L
R/C SW
IC9931 M62320FP
I/O EXPANDER
IC7801 M62399FP
FAN CONTROL
IC7821 PQ20WZ11P
IC7841 PQ20WZ11P
IC7861 PQ20WZ11P
IC7881 PQ20WZ11P
IC801 HD64F7045F28-C291
MAIN CPU
IC4891 TC7SET00FU-(TE85L)
IC9822 TC7SH02FU(TE85L)
IC9884 M66230FP-2000
IC9882 SN74LV14APWR
IC9851 M66230FP-2000
IC806 MPXA4115A6T1
PRESSURE SENSOR
IC9883 TC74VHC574FT
IC802 MN1382-Q-TX
IC1802 TC74ACT138FT-EL
IC803 MBM29F160BE-90-C197A
FLASH ROM
IC1801 M66500FP
I/O EXPANDER
IC9801 ML60851CTB ; ML60851DTB
USB CONTROLLER
IC805 TC74ACT08FT
IC804 CY7C1041B-15ZC
SRAM
IC5881 TC74ACT541FT
IC5861 TC74ACT541FT
IC5831 TC74ACT541FT
IC5801 TC74ACT541FT
IC1871 LM76CHMX-5
TEMP. SENSOR
IC1872 LM76CHMX-5
TEMP. SENSOR
IC811 TC7S04F-TE85L
IC812 TC74LCX244FT ; HD74LVC244AT
IC813 TC7S08F-TE85L
IC7843 TC7S32FU-TE85L
IC814 TC74LCX541FT
IC815 TC74LCX541FT
IC816 TC74ACT541FT
Schematic Diagrams A10
Main Board P.6/6
A10
SCH_MR3A
MR3A-08

■ Printed Wiring Board Diagrams

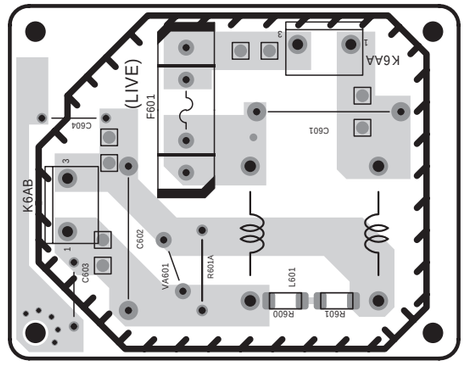
FILTER (SIDE:A)



SW905
SW902

POWER
“K6AC”

FILTER (SIDE:B)

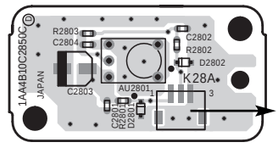


⚠ CAUTION

This projector is isolated from AC line by using the internal converter transformer.
Please pay attention to the following notes in servicing

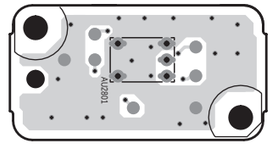
1. Do not touch the part on hot side (primary circuit) or both parts on hot and cold sides (secondary circuit) at the same time.
2. Do not shorten the circuit between hot and cold sides.
3. The grounding lead must be connected to the ground of the same circuit when measuring of voltages and waveforms.

RC FRONT (SIDE:A)

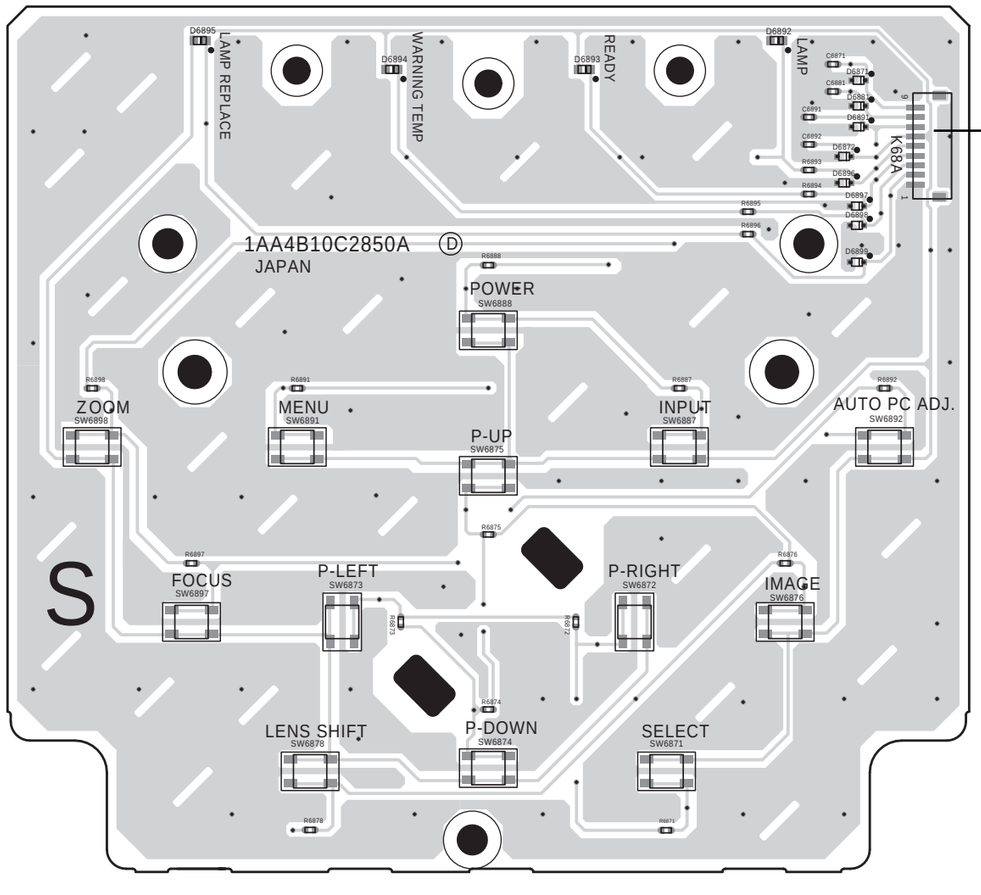


MAIN “K8U”

RC FRONT (SIDE:B)

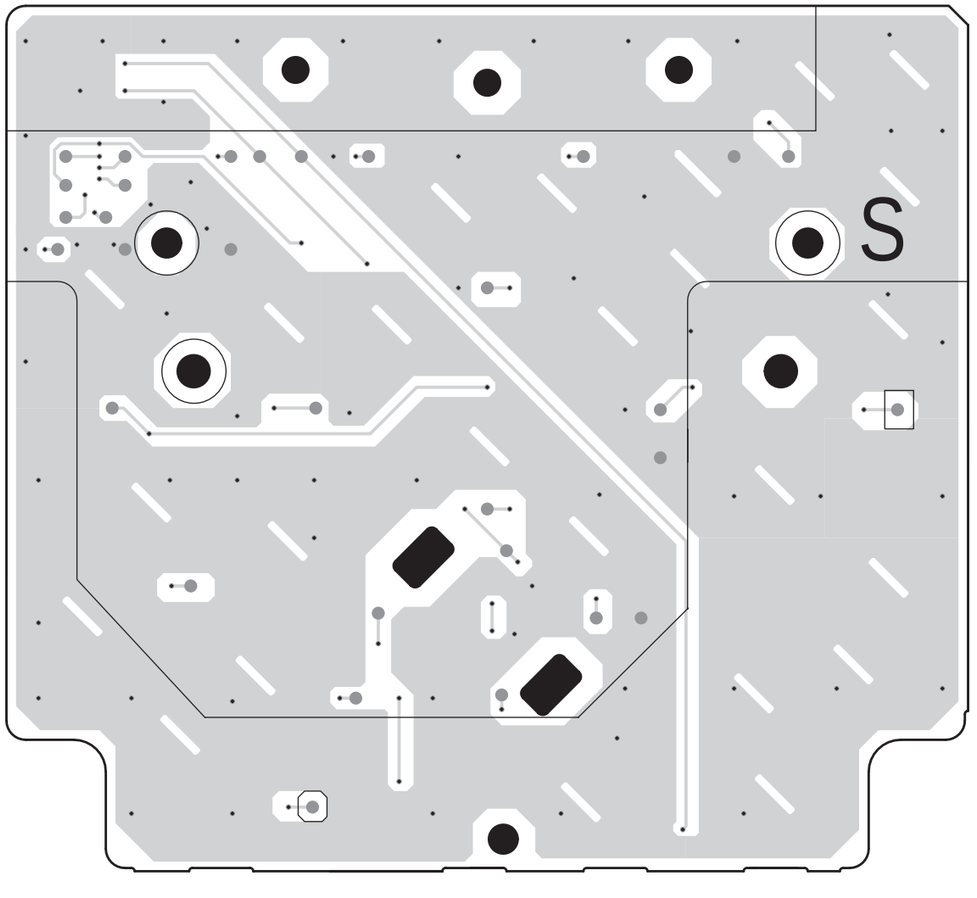


CONTROL (SIDE:A)

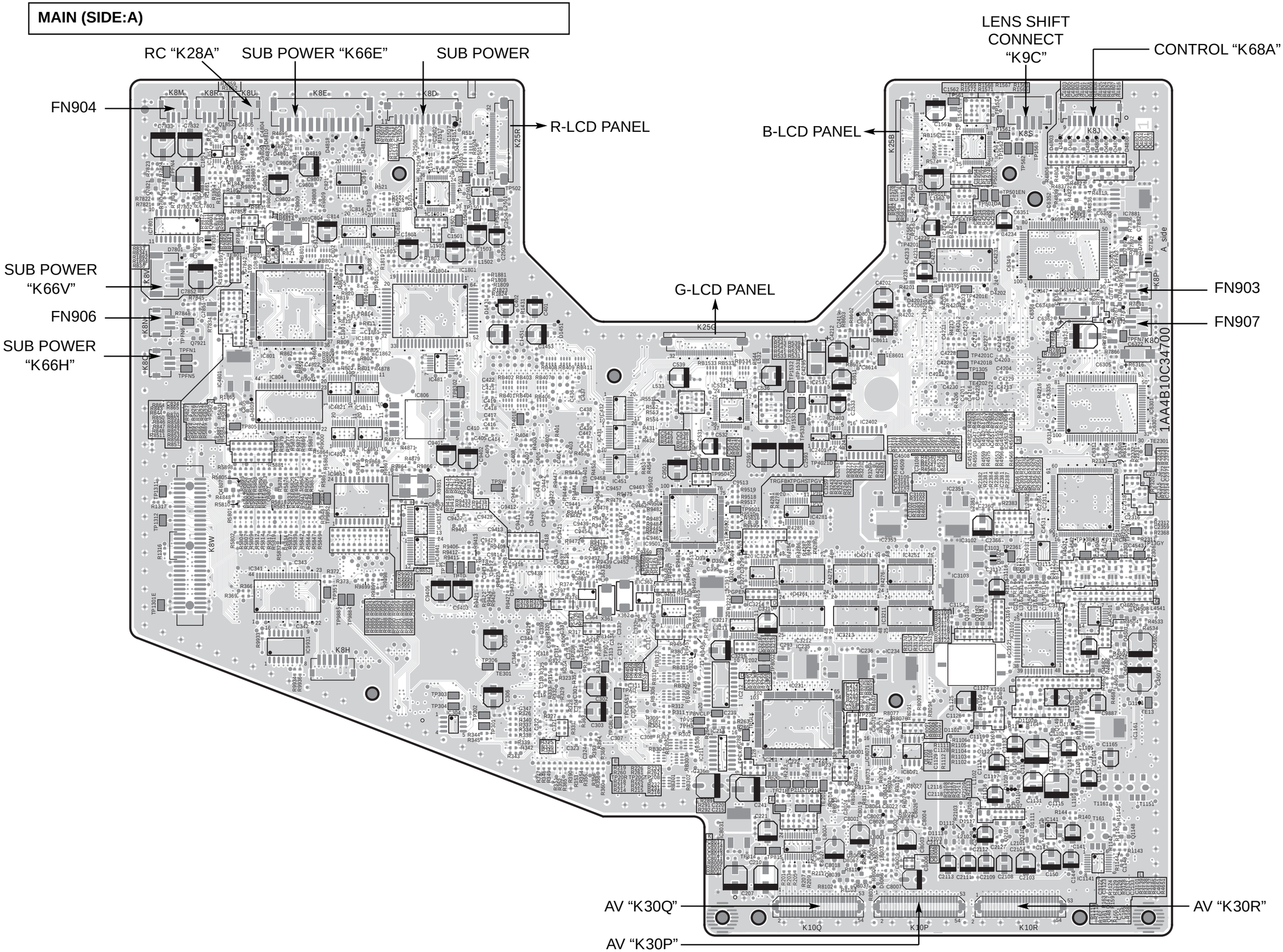


MAIN “K8J”

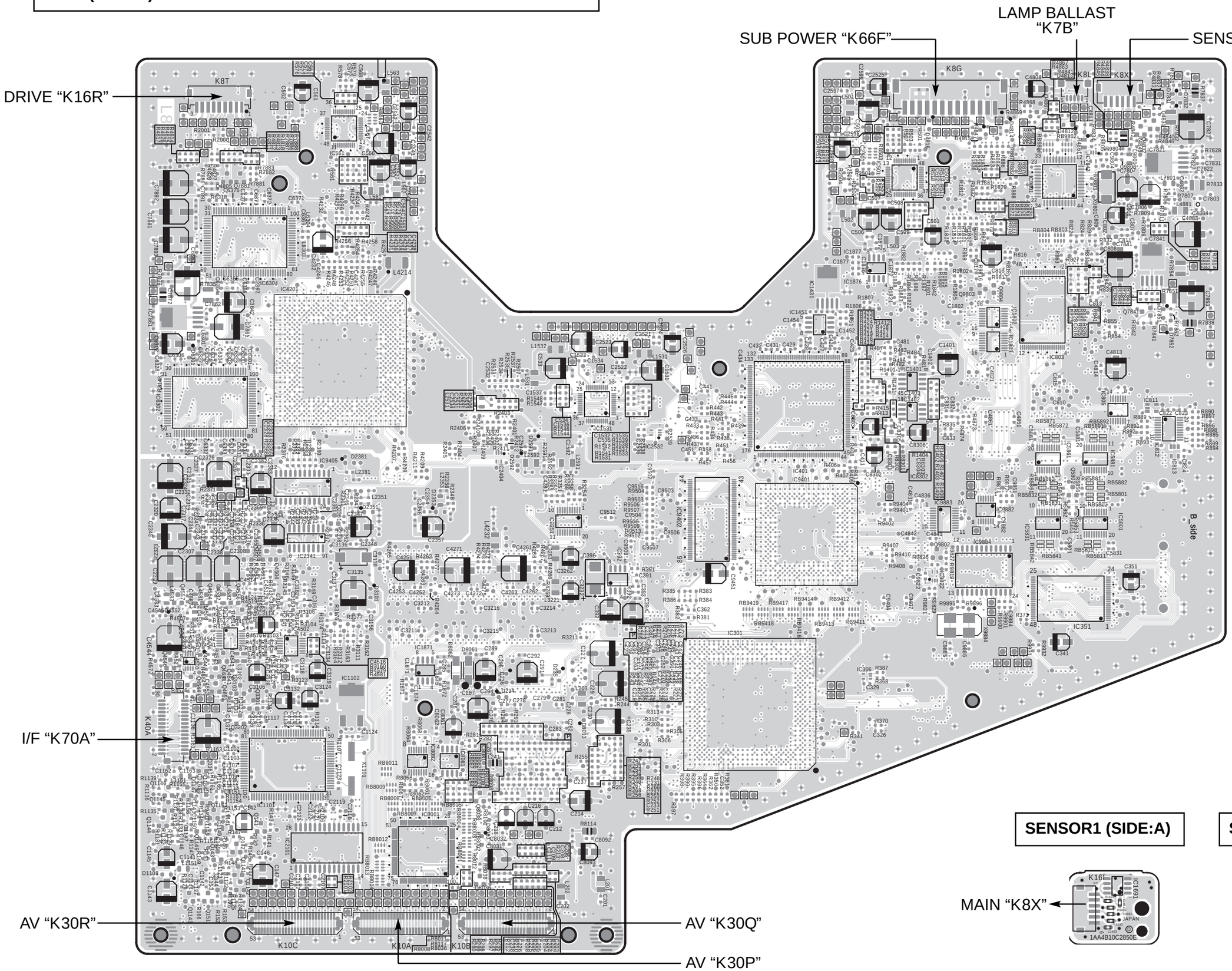
CONTROL (SIDE:B)



MAIN (SIDE:A)

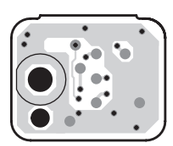

RC “K28A”
SUB POWER “K66E”
SUB POWER
LENS SHIFT CONNECT “K9C”
CONTROL “K68A”
FN904
R-LCD PANEL
B-LCD PANEL
SUB POWER “K66V”
FN906
SUB POWER “K66H”
G-LCD PANEL
FN903
FN907
AV “K30Q”
AV “K30P”
AV “K30R”
K10Q
K10P
K10R
A_side
1AA4B10C34700

MAIN (SIDE:B)

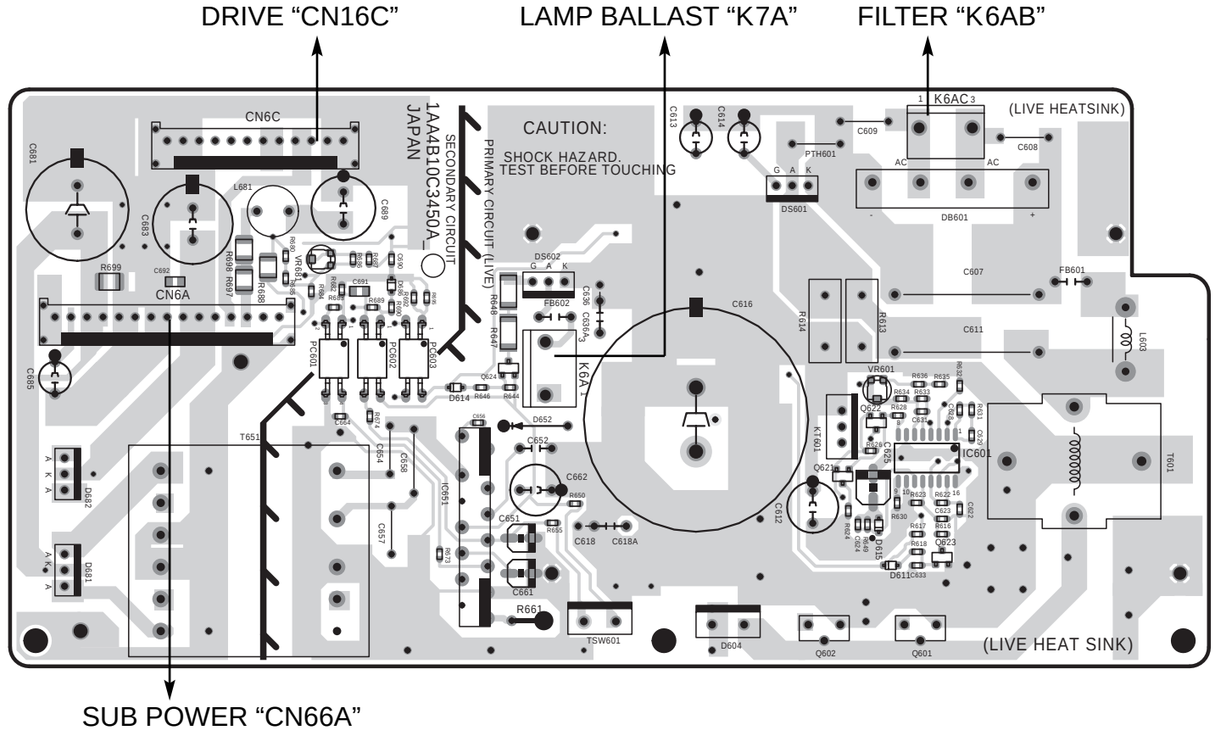


SENSOR1 (SIDE:A)

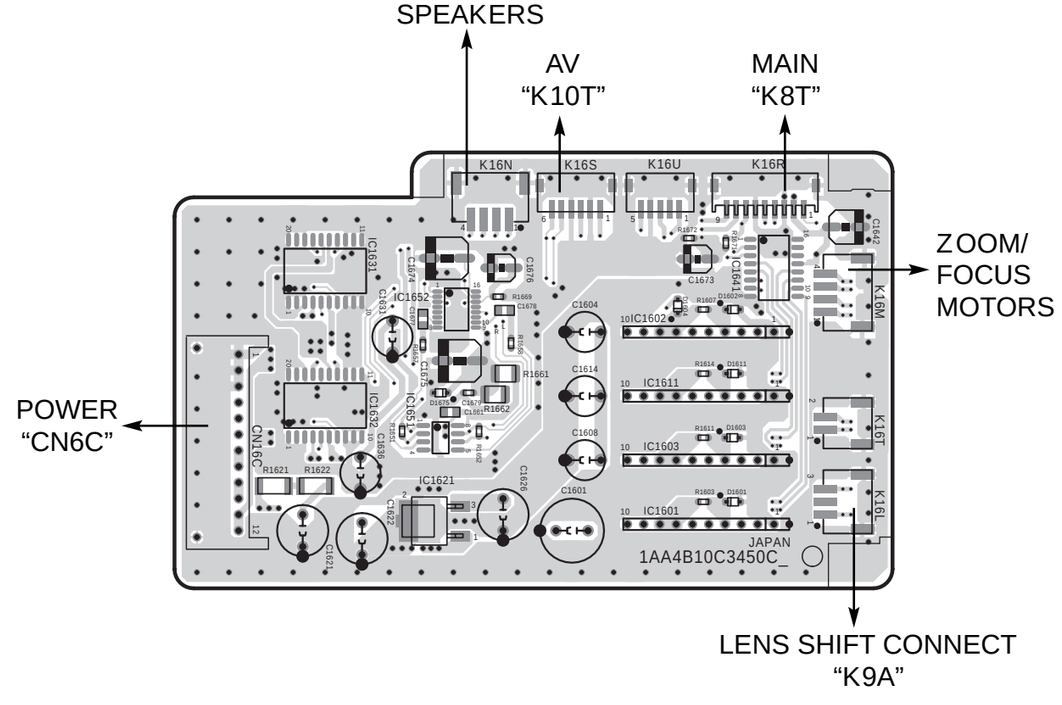
SENSOR1 (SIDE:B)



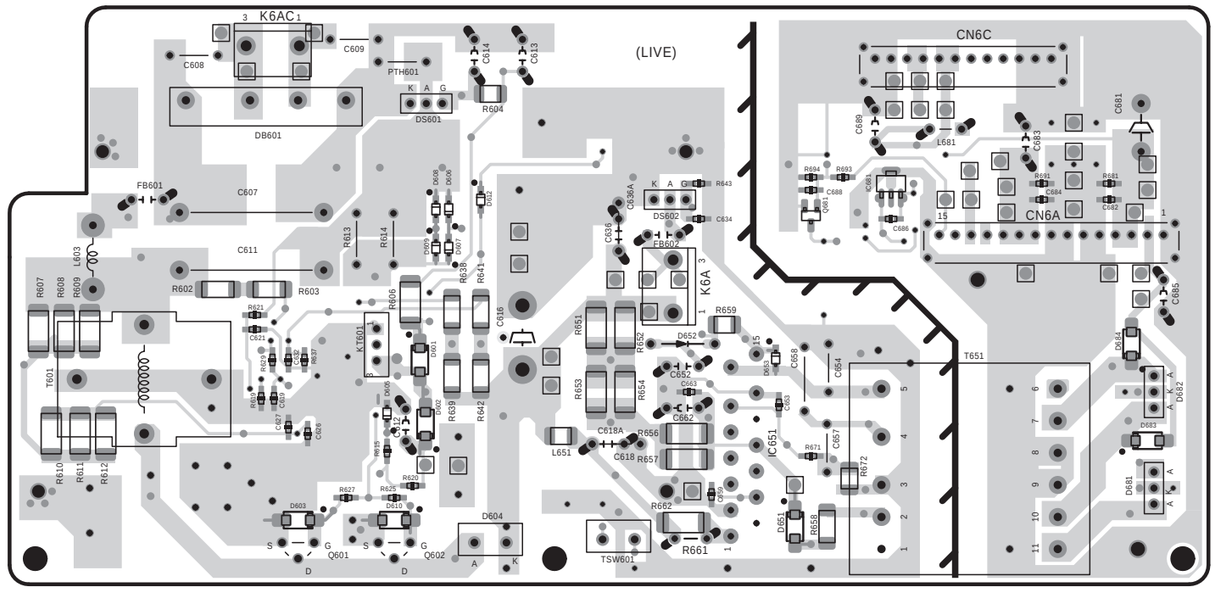
POWER (SIDE:A)



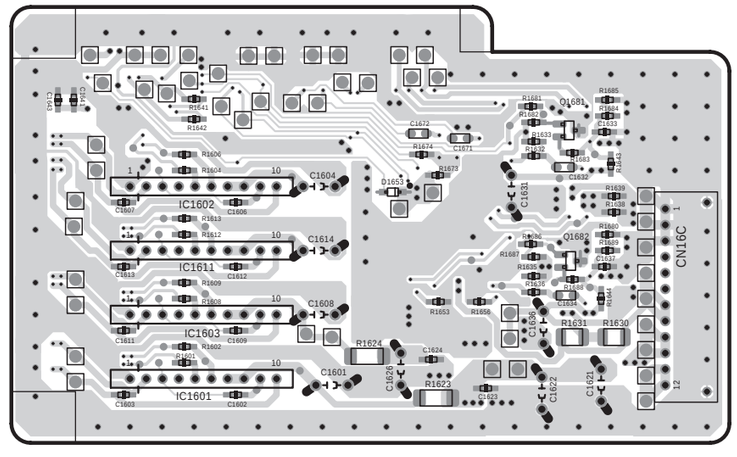
DRIVE (SIDE:A)



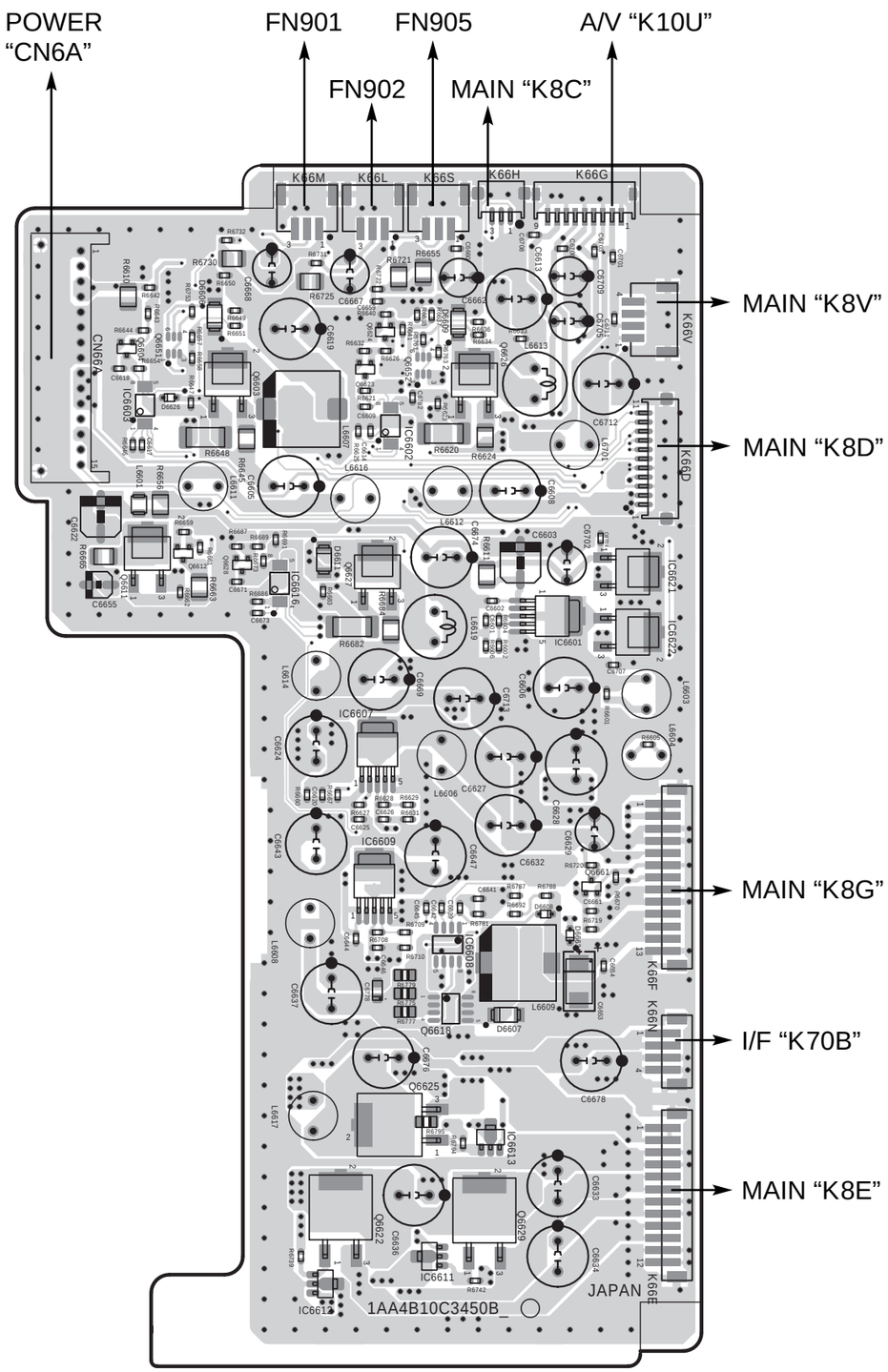
POWER (SIDE:B)



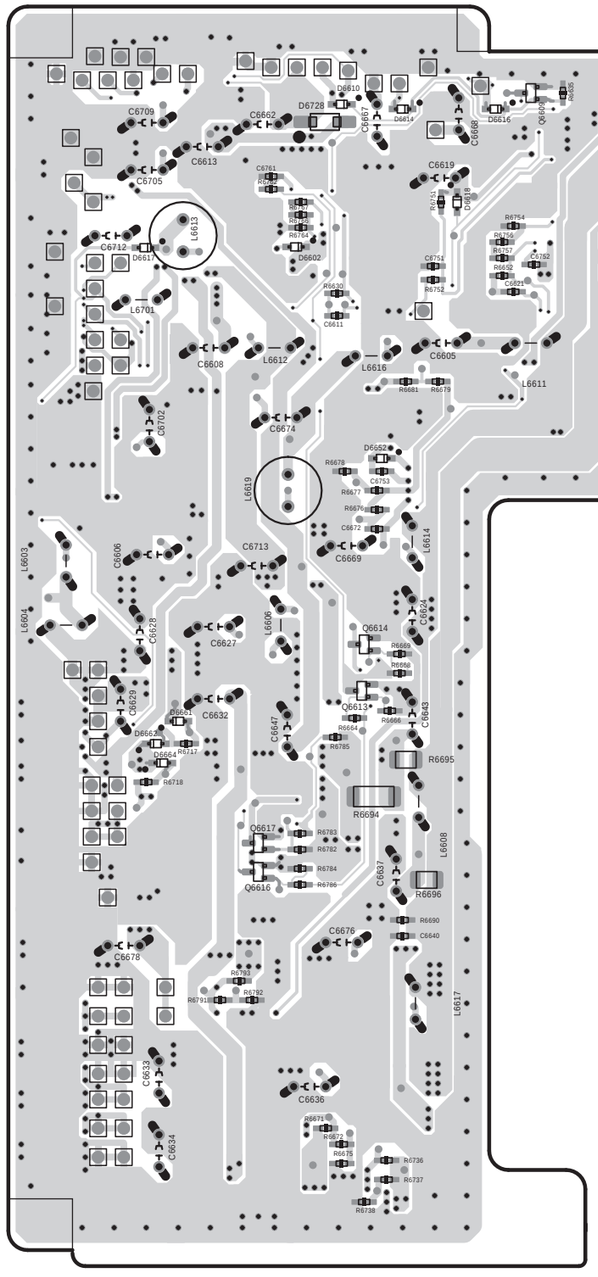
DRIVE (SIDE:B)



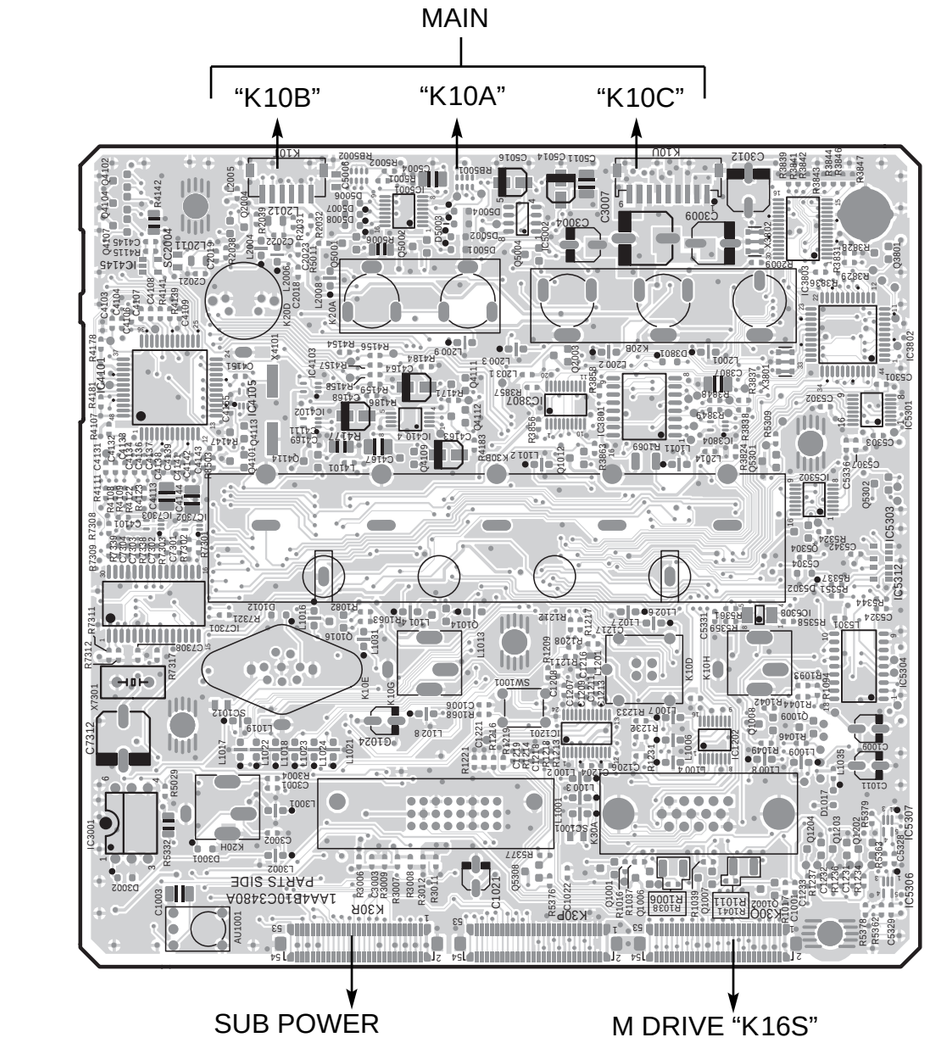
SUB POWER (SIDE:A)



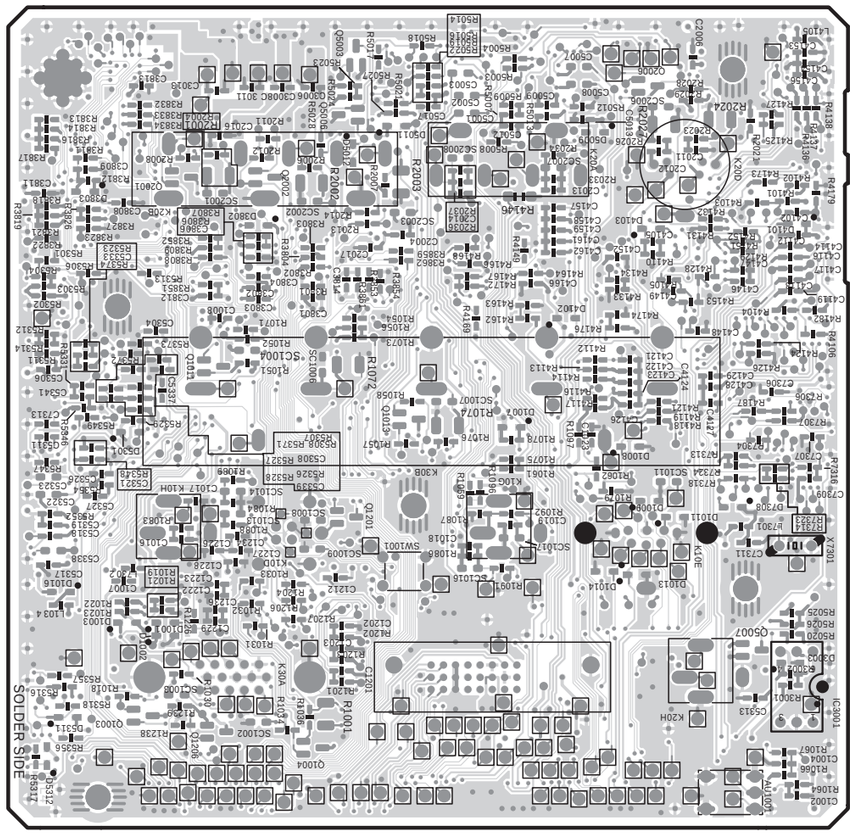
SUB POWER (SIDE:B)



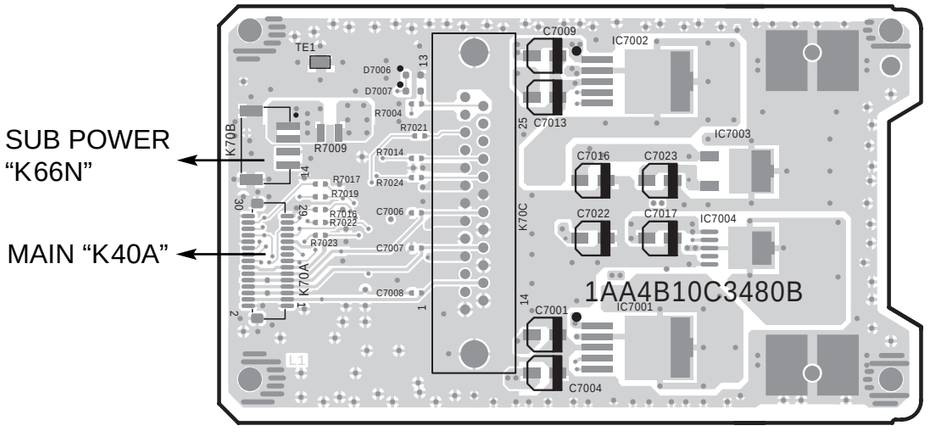
AV (SIDE:A)



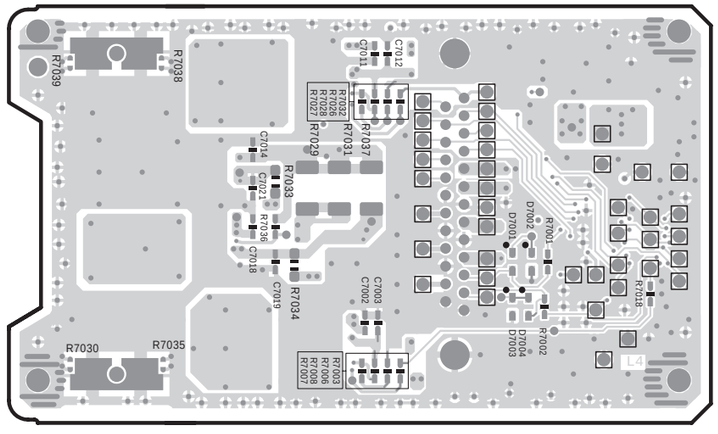
AV (SIDE:B)



I/F (SIDE:A)

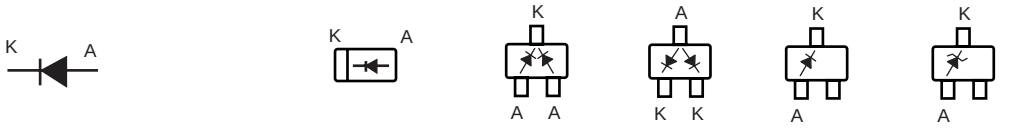


I/F (SIDE:B)



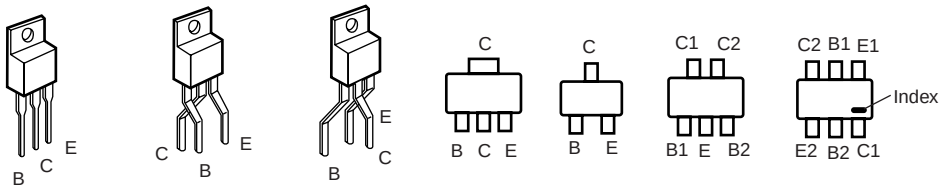
■ Pin description of diode, transistor and IC

● Diode



K: Cathode
A: Anode

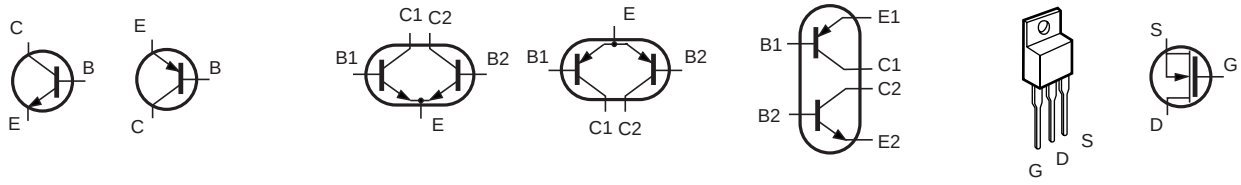
● Transistor/FET



C: Collector
B: Base
E: Emitter

D: Drain
G: Gate
S: Source

FET



● IC